#### TWENTY-SIXTH

# ANNUAL REPORT

ON THE

SANITARY CONDITION OF THE COMBINED DISTRICT

OF

# WEST SUSSEX,

FOR THE YEAR 1899,

BY

CHARLES KELLY, M.D., F.R.C.P.,

MEDICAL OFFICER OF HEALTH.

Brighton:

THE SOUTHERN PUBLISHING CO., LTD., 130, NORTH STREET.

# Digitized by the Internet Archive in 2018 with funding from Wellcome Library

# INDEX.

G	ENERAL REPORT	. xliii.
	Population	, i
	Births and birth-rates in Rural and Urban Districts	iii.
	General mortality	v
	Deaths and death-rates in Rural and Urban Districts	vi.
	Gain by excess of births over deaths	vii.
	Influence of season on mortality	viii.
	Infant mortality	viii.
	Table I.—Births and birth-rates in 1876-99	ix.
	Table II.—Deaths in each month in 1876-99	X.
	Table III.—Deaths from five zymotic diseases in Rural and Urban	
	Districts, 1876-99	
	Table IV.—Deaths from various causes in each Rural District, 1876-9	
	Table V.—Death-rates from various causes in the Combined District	
	Table VI.—Death-rates from various causes in each Rural District	xiii.
	1070 00	xiv.
	Table VII.—New cases of infectious disease in the Combine	
	District, 1895-99	
	Table VIII.—New cases of infectious disease in Rural Districts	,
		xvi.
		xvii.
	Table IX.—Deaths and death-rates from zymotic diseases in Rura Districts, 1876-99	ai xviii.
	Table X.—Deaths and death-rates from zymotic diseases in Urba	
	Districts, 1876-99	
	Table XI.—Bright Sunshine in the ten years, 1890-99	xx.
	Table XII.—Accumulated heat in the ten years, 1890-99	xxi.
	Table XIII.—Climate of Worthing	xxii-iii.
	Sale of Food and Drugs Act, 1875 and 1879	xxiv.
	Worthing Corporation Observatory	xxvii.
	Meteorology	<b>x</b> xxi.
	Swandean	xxxvii.
	Table A.—Table of deaths during the year 1899, in the Combine	
	District of West Sussex, classified according to diseases, ages, an	1
	Table B.—Table of population, births, and of new cases of infectious	
	sickness, coming to the knowledge of the Medical Officer of Healt	ch
	during the year 1899, in the Combined District of West Sussex	ζ,
	classified according to diseases, ages, and localities	xlii.

# INDEX (Continued).

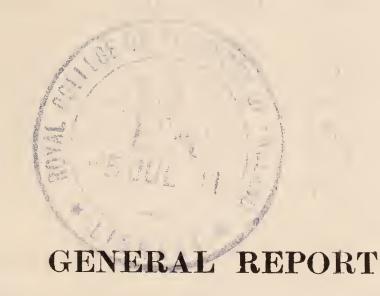
STEYNING WEST DISTRICT	r	1-10	Thakeham District (continu		).
Population		1	Pollution of a Stream	at	<b>=</b> 0
T) 11 11 11 1		3		• •	78
C	• • •	3	Legal proceedings .	• •	79
Tr C 1 11'4		4	Systematic inspection .		79
77		$\overline{4}$	Scavenging and cleansing	ıg	80
		6	${ m Miscellaneous} \qquad \ldots \qquad .$		80
		0	Inquests		81
Southwick drainage a		<u>_</u>		• •	82-88
sewerage	• • •	5		• •	
Systematic inspection	• • •	7	EAST PRESTON DISTRICT .	• •	89-110
Scavenging and cleansing		8		• •	
Cowsheds and dairies		8	<u> </u>	• •	89
Miscellaneous		8			92
		9	General mortality		92
Statistical tables		10-16	Infant mortality	• •	93
	*		Zymotic mortality		94
STEYNING EAST DISTRICT	1	17-30	TD 9		95
			Littlehampton and Wie		96
Population		17	Isolation hospital at Swar		
Births and birth-rate		19	dean		99
General mortality	• •	19	Scavenging and cleansing		
Infant mortality	• •	20	Systematic inspection	-8	100
Zymotic mortality		20	Systematic inspection		101
Infant mortality Zymotic mortality Miscellaneous		. 21		• •	
Inquests		22		• • •	101
		23-30	Statistical tables	• • •	103-110
					*** 100
HODGILAN DIGMONGE /Dans	٠1١	21 56	MIDHURST DISTRICT	• • •	111-130
HORSHAM DISTRICT (Rura	a1)		Population		111
Population		31		• • •	114
Births and birth-rate		33		• • •	114
General mortality	• • •	34	Infant mortality		116
Infant mortality		35	Zymotic mortality		116
Zymotic mortality		<b>3</b> 5			118
Scarlatina		36	Water supply regulation		121
Drainage of Roffey	• • •	37	Systematic inspection		121
Ifield and Crawley wa		*/ \$	Scavenging and cleansi	_	
supply and drainage		42	Duck Lane, Midhurst	• • •	122
NT 1 1	• • •	45		• • •	122
	•	44	Water supply	0.00	122
Systematic inspection	• •		Miscellaneous		123
Miscellaneous	• • •	47	Inquests	• • •	123
Rainfall	* * *	47	Statistical tables		124-130
Inquests	* * . *	48			
Statistical tables	• • •	49-56	Westbourne District		131-146
			Population		131
PETWORTH DISTRICT		57-72	73. 1 7 1 1 1	• • •	133
Donulation					133
Population	• • •	57	General mortality	• • •	134
Births and birth-rate	• • •	59	Infant mortality	• •	
General mortality	• •	60	Zymotic mortality		135
Infant mortality		60	Scarlatina	• • •	136
Zymotic mortality		61	Miscellaneous	• • •	137
Water supply		69	Sunshine	• • •	138
Systematic inspection		63	Rainfall		139
Legal proceedings		63	Inquests	• • •	139
Miscellaneous		63	Statistical tables		140-146
Inquests		64			
Statistical tables		65-72	WORTHING DISTRICT		147-164
THAKEHAM DISTRICT		73-88	Population	• • •	147
			Births and birth-rate		148
Population		73	General mortality	• • •	148
Births and birth-rate		75	Infant mortality	• • •	150
General mortality		<b>7</b> 5	Zymotic mortality		15]
Infant mortality	• •	76	Water supply		153
Zymotic mortality		77	Systematic inspection		153

# INDEX (Continued).

Worthing District (continued).	Horsham District (Urban)	191-206
Inquests 156	Population	191
Statistical tables 157-164	Births and birth-rate	191
	General mortality	192
LITTLEHAMPTON DISTRICT 165-176	Infant mortality	193
	Zymotic mortality	193
Population 165	Horsham cottage hospital	194
Births and birth-rate 165	Water supply	194
General mortality 166	Sewage and drainage	196
Infant mortality 167	Systematic inspection	196
Zymotic mortality 167	Miscellaneous	196
Scavenging and cleansing 168	Inquests	198
Miscellaneous 168	Statistical tables	199-206
Inquests 169		
Statistical tables 170-176	PORTSLADE-BY-SEA DISTRICT	207-221
	Population	207
ARUNDEL DISTRICT 177-190	Births and birth-rate	207
ARUNDEL DISTRICT 177-190	General mortality	208
Population 177	Infant mortality	208
Births and birth-rate 177	Zymotic mortality	209
General mortality 178	Water supply	210
Infant mortality 179	Drainage and sewerage	210
Zymotic mortality 179	Bexley system	210
Water supply 180	Scavenging and cleansing	211
Drainage and sewerage 181	Hospital accommodation	212
Miscellaneous 181	Miscellaneous	213
Rainfall 181	Systematic inspection	214
Inquests 182	Inquests	214
Statistical tables	Statistical tables	215-221

# COMBINED WEST SUSSEX DISTRICT. GENERAL REPORT.

pp. i et seq.



ON THE

# HEALTH OF THE COMBINED DISTRICT

# OF WEST SUSSEX.

#### POPULATION.

The combined District is formed at the present time by the union of eight rural with six urban districts.

The combination, when originally created in 1874, was made up of five rural and three urban districts. Midhurst joined in 1876 and Westbourne in 1880, thus making seven rural districts.

At the end of 1894 Steyning was divided into two rural portions, thus raising the number to eight. West Worthing was united to Worthing in 1890, thus reducing the number of urban districts to two, while Arundel joined in 1882, and Horsham in 1891, thus raising the number to four.

Portslade-by-Sea is a new Urban District taken out of the Steyning East Rural District, on March 31st, 1898. Southwick is a new Urban District taken out of the Steyning West Rural District, on Michaelmas Day, 1899; it is included here in Steyning West Rural District for 1899. The figures given below in *italics* show the population of these new areas in each census year, but these figures are not added in the total, as already they have been entered under the "Steyning Rural District."

For comparative purposes, the population of all the present thirteen districts is here given at each of the last four census periods, and also the number estimated as living in each area in the middle of 1899.

Rural District.	Census, 1861.	Census, 1871.	Census, 1881.	Census, 18	Middle of 1899.
Steyning	11,018	14,060	16,325	19,110 {	w. 11,750 e. 2,350
Horsham	17,876	19,935	15,426	16,798	19,470
Petworth	10,065	10,147	9,594	9,431	9,340
Thakeham	8,036	8,335	8,285	8,049	8,000
East Preston	6,716	7,674	8,025	8,692	10,000
Midhurst	12,608	13,042	13,965	14,236	14,450
Westbourne	6,957	7,221	7,420	7,084	6,930
Urban District.					
Worthing	5,805	7,413	10,976	16,606	21,600
West Worthing	54	276	689 }	70,000	23.,000
Littlehampton	2,350	3,266	3,926	4,452	6,000
Arundel	2,498	2,956	2,748	2,644	2,640
Horsham	I (*		6,874	8,087	9,000
Portslade-by-Sea	1,103	2,344	3,708	4,240	5,000
Southwick	1,358	2,339	2 <b>,</b> 561	2,564	3,050
Rural	73,276	80,414	79,040	83,400	82,290
Urban	10,707	13,911	25,213	31,789	44,240
Total	83,983	94,325	$\overline{104,253}$	115,189	126,530

For the purposes of this Report the population in the middle of the undermentioned periods is taken as the basis of the calculations.

Period. Rural Districts	1876-80. 69,640	1881-85. 80,150	1886-90. $82,340$	189 <b>1</b> -95. 84,830	82,290
Urban Districts	13,990	19,350	21,990	33,230	44,240
Total	83,630	99,500	104,330	118,060	$\frac{-}{126,530}$

The combined district, when it was originally formed in 1874, had an estimated population of 74,797; the estimate for the middle of 1899 is reckoned at 126,530, an increase of 51,733 persons, or 69·16 per cent.

The growth of the district is in a great measure due to an increased area whereby more persons come within the combination.

The changes in population since 1874 may thus be summarised:—

	O	r r		J	
Year.		Rural.		Urban.	Total.
1874	• •	62,840	• •	11,957	 74,797
1881		79,040		15,591	 94,631
1891		83,400		23,702	 107,102
1897	• •	85,790		37,370	 123,160
18 <b>9</b> 9		82,290		44,240	 126,530
Increase in over 187	1	19,450		32,283	 51,733

#### BIRTH AND BIRTH-RATE.

During the year 1899, the births of 2,879 children were registered, of these 1,493 were male, and 1,386 were female.

Table I. shows the various changes in the birth-rate during the twenty-four years 1876-99. There has been a gradual decline in the number of births, and this decline is general throughout the country.

The births and birth-rates in each of the past nine years are here shown:—

	Population.	E	Births.		Rate per
Year.	Population.	Male.	Female.	Total.	1,000.
1891	107,350 .	. 1,444	1,393 .	. 2,837	26.43
1892	116,740 .	. 1,519	1,316 .	. 2,835	24.28
1893	118,060 .	. 1,551	1,453 .	. 3,004	25.44
1894	116,460 .	. 1,468	1,424 .	. 2,892	24.83
1895	119,140 .	. 1.486	1,392 .	. 2,878	24.16
1896	120,910 .	. 1,464	1,412 .	. 2,876	23.78
1897	123,160 .	. 1,486	1,377 .	. 2,863	23.25
1898	124,350 .	. 1,418	1,471	. 2,889	23.15
1899	126,530 .	. 1,493	1,386 .	. 2,879	22.75

The birth-rate reached its highest point in 1879, when it was 31·12 per 1,000; in the five-year period, 1876-80, it was 30·6; in 1881, when the population was only 94,860, there were 2,868 births, and there were only 11 more births in 1899 with a population of 126,530.

Table I. shows also the number of the births in each quarter of the year; they are most numerous in the first quarter, and they decline gradually through the rest of the year; taking each year separately, there are slight variations, but this is the general rule.

More boys are born than girls, and the difference amounted to 1,823 in the twenty-four years 1876-99, or in the proportion of 106 boys to every 100 girls born. The years 1880 and 1898 were the only years of the series in which the female births exceeded the male births.

The mean annual birth-rate in this combined district is here contrasted with similar figures for England and Wales:—

		Births.		В	irth-rate	
Period.		West Sussex.		West Sussex.		England.
1876-80	 	12,818		30.60		3 <b>5·4</b>
,1881-85	 • •	14,556	• •	29:60	• •	3 <b>3</b> ·5
1886-90	 • •	13,858	• •	26.57	• •	31.4
1891-95	 	14,446		<b>25</b> ·03		30.5
1896	 • •	2,876		23.78		29.7
1897	 	2,863		23.25		29.7
1898	 	2,889		23.15	• •	29.4
1899	 	2,879		22.75	ø. • •	29.3

# BIRTHS AND BIRTH-RATES, 1876-99.

## COMBINED DISTRICT.

Period.		Male.		Female		Total.	lean annual te per 1,000.
1876-80		6,546		6,272		12,818	 30.60
1881-85		7,549		7,007		14,556	 29.60
1886-90		7,080		6,778		13,858	 26.57
1891-95		7,468		6,978		14,446	 <b>25.0</b> 3 ,
1896		1,464		1,412		2,876	 23.78
1897		1,486	è •	1,377	1	$2,\!863$	 $23 \cdot 25$
1898 .		1,418		1,471		2,889	 23.15
1899	'e e	1,493		1,386		2,879	 22.75
1876-99		34,504	• •	32,681	• •	67,185	 27:16
Per cen	t	*51.36		48.64		100.00	

## RURAL DISTRICTS.

Period.		Male.		Female.	Total.		tean annual te per 1,000.
1876-80		5,546	,	5,329	 10,875		31.19
1881-85		6,272		5,864	 12,136		30.29
1886-90		5,678		5,518	 11,196		27.20
1891-95		5,608		5,260	 10,868		23.93
1896	• •	1,071		1,018	 2,089		24.60
1897		1,097		957	 2,054	6 j	23.94
1898		944		973	 1,917		23.52
1899		982		911	 1,893		23.00
						-	
1876-99		$27,\!198$		25,830	 53,028		27.42
		•	ŧ				
Per cen	t	51.29		48.71	 100.00		

### URBAN DISTRICTS

Period.		Male.		Female.		Total.		Mean annual rate per 1,000.
1876-80		1,000	• •	943		1,943		27.66
1881-85		1,277		1,143		2,420		26.68
1886-90		1,402		1,260		$2,\!662$		24.23
1891-95		1,860		1,718		3,578	•	22.66
1896		393		394		787		21.82
1897		389		420		809		21.65
1898	• .	474		498		972		22.69
1899		511		475	• •	986		22.28
1876-98	• •	7,306		6,851		14,157		24.77
Per cent.		51.61		48:39		100.00		

#### GENERAL MORTALITY.

During the year 1899, the deaths of 1,836 persons were registered, and of these 915 were male, and 921 were female. Estimating the population in the middle of the year at 126,530, the death-rate was equal to 14.51 per 1,000 persons living.

		De	eaths.				Death-rate		
District.		Males.	Fe	male	S.	Total.		in 1899.	
Steyning West		71		79		<b>15</b> 0		12.76	
Steyning East		8		13		21		8.93	
Horsham	• •	134	1	24		258	• •	13.25	
Petworth	• •	61		44		105		11.24	
Thakeham		58		49		107	• •	13.37	
East Preston	• •	83		79	• •	162		16.20	
Midhurst		95		93	, .	188		13.01	
Westbourne		63		48		111		16.00	
Worthing	• •	153	1	81		334		15.46	
Littlehampton	• •	44		55		99	٠	16.50	
Arundel	• •	20		28	٠.	48		18.18	
Horsham	• •	86		74		160		17.78	
Portslade-by-Sea		39		54		93		18.30	
1									
Total	• •	915	9	21		1,836		14.51	

There were 1,848 deaths registered in the combined district, but to this number there should be added the deaths of 9 persons in New Shoreham Workhouse which is outside the area, and from this number there should be deducted the deaths of 21 persons in Hangleton Hospital among persons not belonging to this district, leaving the corrected total at 1,836.

All deaths among visitors at Worthing or Littlehampton are included in the district where each death occurred, and all Workhouse deaths are transferred to the parish whence each inmate came.

The figures given in Table B for each district are, with the above exceptions, only transfers from one part of the combined district to another part.

The deaths and death-rates in each of the past nine years are here given:—

		D	eaths.			Rate per
· Year.	Population.	Male.		Female.	Total.	1,000.
<b>18</b> 91	 107,350	 951		863	 1,814	 16.90
1892	 116,740	 990		946	 1,936	 16.58
1893	 118,060	 961		938	 1,899	 17.08
1894	 116,460	 770		752	 1,522	 13.07
189 <b>5</b>	 119,140	 891		890	 1,781	 14.95
1896	 120,910	 816		777	 1,593	 $13 \cdot 17$
1897	 123,160	 861		773	 1,634	 13.27
1898	 124,350	 872		813	 1,685	 13.55
1899	 126,530	 915		921	 1,836	 14.51

The death-rate in England and Wales in 1899 was equal to 18·3 per 1,000 of the population; it was 0·1 per 1,000 lower than the rate in the ten previous years, 1889-98; the mortality is much higher in large towns than in country districts.

A comparison is here made between the rates prevailing in West Sussex and in England and Wales during the twenty years 1876-95 and in 1896-99.

	Period.	W	Vest Susse	х.	Town District	s.	Country District	7 S.	England.
ı,	1876-80		15.51		$22 \cdot 4$		21.2		20.8
	1881-85		14.61		20.4		17.5		19.4
ø	1886-90		14.48		20.0		17.1		18.9
	1891-95		15.52		19.5		17.3		18.7
6	1896		13.17		18.0		15.3		17.1
	1897		13.27		18.2		15.8		17.4
	1898		13.55		18.3		16.0		17.6
	1899		14.51		19.2		16.3		18.3

DEATHS AND DEATH-RATES, 1876-99.

#### COMBINED DISTRICT.

Period.		Male.		Female.	Total.	Annual rate per 1,000.
1876-80		3,440		3,056	 6,496	 15.51
1881-85		3,779		3,416	 7,195	 14.61
1886-90		3,955		3,595	 7,550	 14.48
1891-95		4,563		4,389	 8,952	 15.52
1896		. 816		777	 1,593	 13.17
1897	٠	. 861	•  •	773	 1,634	 13.27
1898		. 872		813	 1,685	 13.55
1899		. 915	• •	921	 1,836	 14.51
1876-99		19,201		17,740	 36,941	 14.80
Per cent.		51.98		48.02	 100.00	 

#### RURAL DISTRICTS.

Period.	Male.		Female.	Total.	Annual rate per 1,000.
1876-80	 2,906		2,482	 5,388	 15.46
1881-85	 3,121		2,753	 5,874	 14.65
1,886-90	 3,112		2,727	 5,839	 14.19
1891-95	 3,311		2,977	 6,288	 14.99
1896	 555		513	 1,068	 12.57
1897	 608		507	 1,115	 13.00
1898	 576		<b>5</b> 06	 1,082	13.27
1899	 <b>57</b> 3		529	 1,102	 13.39
1876-99	 14,762	• •	12,994	 27,756	 14.53
				1)	
Per cent.	 53.18		46.82	 100.00	 

#### URBAN DISTRICT.

Period.		. Male.		Female.		Total.	Annual rate per 1,000.
1876-80		534	• •	574		1,108	 15.69
1881-85		658		663		1,321	 14· <b>5</b> 3
1886-90		843		868		1,711	 15.59
1891-95		$1,\!252$		1,412	• •	2,664	 17.03
1896		261		264		525	 14.59
1897		253		266		519	 13.90
1898		296		307		603	 14.08
1899		342		392		734	 16.59
	-						
1876-99		4,439		4,746		9,185	 15.55
Per cent.	• • •	48.33	•	51.67		100.00	 on the same of the

#### GAIN BY EXCESS OF BIRTHS OVER DEATHS.

In the combined district there were 67,185 births and 36,941 deaths in the twenty-four years, 1876-99, so that the increase of population from this source was 30,244.

		RURAL.	,			URBAN.	
	Male.	Female.	Total.		Male.	Female.	Total.
Births	27,198	25,830	53,028		7,306	6,851	14,557
Deaths	14,762	12,994	27,756	•// •	4,439	4,746	9,185
Excess of Births	12,436	12,836	25,272		2,867	2,105	4,972

# INFLUENCE OF SEASON ON MORTALITY.

Table II. shows the deaths taking place in each month in 1876-95, and in 1896-99.

Deaths are more frequent in the cold months than in the warm months of the year; hence the death-rate is highest in the first quarter, it declines through the second quarter, reaching its lowest point in the third quarter, and rising again as winter advances.

Eighteen hundred and ninety-nine was an exceptional year; a mild winter caused a low death-rate, while a very warm summer raised the death-rate in the autumn.

In each quarter of the twenty-four years 1876-99 the deaths were thus recorded:—

Period.		1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Total.
1876-80		1,864	1,645	1,468	1,519	6,496
1881-85	• •	1,978	1,790	1,686	1,741	7,195
1886-90		2.237	1,827	1,664	1,820	7,550
1891-95		2,893	2,113 .	1,946	2,000	8,952
1876-95	• •	8,972	7,377	6,764	7,080	30,193
Per cent	• •	29.71	24.43	22.41	23.45	100.00
1896		429	347	380	437	1,539
1897	• •	492	372	389	381	1,634
1898		531	353	421	380	1,685
1899		439	379	516	502	1,836

More persons die in cold than in hot weather; this may be more readily seen by dividing the year into three parts according to temperature:—

		Deaths.	Per Cent.
ColdDecember to March		14,112	38.2
Moderate.—April, May, Oct.,	Nov.	11,729	31.8
Hot.—June to September	• •	11,100	30.0
·	Total	36,941	100.0

#### INFANT MORTALITY.

During the year 1899 there were 348 deaths of infants under one year of age, out of a total of 1,836 deaths from all causes; of these 186 were male and 162 were female.

There were 2,879 births, so that the infant mortality, as measured by the number of deaths under one year of age to every 1,000 children born, was 121 against a rate of 77, 97, 113, 106, 102, 84, 105, 98, 109 and 110 in the ten preceding years, or a mean rate of 100·1 per 1,000 births.

Throughout England and Wales the rate of infant mortality in 1899 was equal to 163 per 1,000, the mean proportion in the preceding ten years having been 151. In large towns the infantile death rate is very much higher.

living. rate per persons Annual birth-1,00025.03 29.60 23.78 23.2523.15 26.57 1,948 1,801— 3,749 1,893 1,762— 3,655 1,827 1,738— 3,565 1,800 1,677— 3,477 7,468 6,978—14,446 669 1,464 1,412— 2,876 6,546 6,272-12,8783,505 1,840 1,730—3,570 1,733 1,651—3,384 1,731 1,668—3,399 7,080 6,778—13,858  $1,486 \ 1,377 - 2,863$ 688 1,493 1,386— 2,879 8,449 17,254 8,752 8,197 16,949 8,505 8,146 16,651 8,442 7,889 16,331 34,504 32,681 67,185 7,549 7,007—14,556 704 1,418 1,471— 2,889 100.001TL. TOTAL. TABLE I.—Showing the Births and Birth-rates in the twenty years, 1876-95, and in 1896-99. 718  $1,785 \ 1,715 - 3,500$ 3,176 24.31 FOURTH QUARTER. 326 -1,674 1,502-312 -341---348-362 357 377 356 1,873 1,741— 3,614 728 722 24.78 750 191 1,612 1,509 - 3,121THIRD QUARTER. 375 359 -369 -404-353 398 363 346  $3,849 \mid 1,990 \mid 1,693 - 3,593 \mid$  $1,650 \ 1,590 - 3,240$ 725 25.23 089 715 77] SECOND QUARTER. 387 373 -315-347-384 378 365 342 3,281708 669 743 720 25.68 TI. FIRST QUARTER. 338-91 1,858-344 -76 1,729 -362 -346--8,80502 355 20 1891-95 ... Total.. Per cent... 1886-90 1876-80 ... 1887-85 ... PERIOD.

TABLE II.—Showing the Deaths in each Month in the twenty years, 1876-95, and in 1896-99.

1899.	143	164	132	131	135	113	129	167	220	143	136	223	1,836
1898.	191	180	1.60	119	119	115	110	144	167	140	109	131	1,685
1897.	173	152	167	128	128	116	128	131	130	123	116	142	1,634
1896.	154	135	140	127	112	108	116	137	127	118	154	165	1,593
Mean. 1876-95.	155.1	141.2	152.2	135.3	124.6	108.9	107.8	115.9	114.4	112.1	112.4	129.4	1,509.6
1891-95.	1,110	850	933	788	200	625	651	629	989	647	618	735	8,952
1886-90.	229	723	837	693	640	496	540	560	564	588	562	049	7,550
1881-85.	683	619	929	624	603	563	533	589	564	535	590	616	7,195
1876-80.	632	633	599	601	550	494	433	5111	524	473	479	299 .	6,496
Month.	January	February	March	April	May	June	July	August	September	October	November	December	Total

TABLE III.—Showing the Deaths in the Rural and Urban Districts from five Zymotic Diseases in the twenty years, 1876-95, Diarrhæa, gniqoodW .dguoO Deaths from Measler. URBAN. Diphtheria. Scarlatina, Population. 42,840 21,990 37,370 19,350 33,230 35,975 Population. and in 1896-99. 80,150 84,830 84,935 85,790 Diarrhæa. Cough. RURAL. **gaigoodW** Deaths from Measles. Diphtheria. Scarlatina. 1891-95 1881-85 1886-90 Total 1876-80 

Rural District in the twenty years, 1876-95, and in 1896-99. 23389 All Diseases. Disease. 2,141  $292 \\ 240$ 225 443  $\begin{array}{c} 132 \\ 141 \end{array}$ Heart3,764 Disease.  $\begin{array}{c} 120 \\ 138 \end{array}$ 284 811 504 436 140 381 581 SunT 2,112 302 158 421 268 221 221 391 Phthisis. 8 8 8 8 8 8 8 8 Fever. 54 8 10 CJ 10 Rheumatic Non-notifiable. 10 22 35 31 394 Diarrhea. 30th, 1893, and Portslade-by-Sea after Dec. 31st, 1897. Cough. 37 23 10 24 24 471 BuidoouM 199 Measles. 86 Erysipelas. 36 Puerperal. TABLE IV.—Showing the Deaths from various causes in each Continued. FEVERS. 222 Enteric. Notifiable Typhus. 13 Croup. 133 07 00 10000 Membranous 440 Diphtheria. \*Excluding Aldrington after Sept. 10 ro 164 Scarlatina. 9 Small Pox. 21 Period, 1876-98 Steyning West Steyning East\* Horsham† East Preston (1881-95)Westbourne Midhurst. Total 1896 1898 1897 Thakeham Petworth

+Including Cowfold in 1895-99

TABLE V.—Showing the Deaths and Death-rate per 100,000 persons living in the Combined District from all causes and from various causes in the twenty years, 1876-95, and in 1896-99.

DEATHS.

**DEATH-RATE PER 100,000.** 

•	eart Disease	131	132	148	156	176	153	169	175	146
	Lung Disease	225	217	236	247	166	140	162	175	220
	Phthisis.	170	139	139	110	95	112	96	66	133
otic.	Idsiliton-noV	90	62	85	134	84	73	79	91	91
Zymotic.	Notifiable.	64	92	50	88	11	41	32	46	99
	All Diseases.	1,552	1,428	1,448	1,554	1,317	1,327	1,355	1,451	1,473
	Population in middle of ea boirsed.	83,630	99,500	104,330	118,060	120,910	123,160	124,350		
	Heart Disease	549	655	772	888	213	193	210	221	3,711
•	Lung Disease.	950	1,081	1,206	1,412	201	173	202	221	5,446
	Phthisis.	714	691	725	631	111	138	120	120	3,255
otic.	Mon-notifiable	379	309	443	779	102	06	86	115	2,315
Zymotic.	Notifiable.	267	87.8	096	515	ස	50	40	558	1,661
	All Diseases.	6,496	7,195	7,550	8,952	1,593	1,634	1,685	1,836	36,941
	nd.		•		:		•	•	•	
	Period	1876-80	1881-85	1886-90	1891-95	. 1896	1897	1898	1899	Total

Table VI.—Showing the Death-rate per 100,000 persons living from all causes, and from various causes, in the Rural Districts during the twenty years, 1876-95, and the corrected Death-rate.

Rural Dis	trict.	Corrected Death- rate.	All Diseases.	Notifiable.	Non-notifiable.	Phthisis.	Lung Disease.	Heart Disease.
Steyning West	}	1,375	1,440	$\left\{egin{array}{c} 74 \ 67 \end{array} ight.$	73 152	140 123	205 201	125 113
Horsham	• • • • •	1,310	1,394	48	68	132	251	122
Petworth		1,371	1,570	54	39	139	263	153
Thakeham	• • • • •	1,298	1,498	72	71	135	265	145
East Preston	• • • • •	1,266	1,483	72	71	128	223	134
Midhurst		1,367	1,494	66	<b>5</b> 5	138	203	155
Westbourne (	1881-95)	1,284	1,501	77	71	123	293	107

Showing the New Cases of Infectious Diseases notified in the Combined District during the five years, 1895-99, and the deaths therefrom. TABLE VII.-

1	. 1										1 1		1
	1899.		ΣC.	30	23	18		1.	ļ	ಣ	7C &	21	37
	1898.	1	6	18		1-		1	<b>C7</b>	က	40		29
ģ	1897.		લ્ય	30	က			I	de la constitución de la constit	4	50	25	25
Deaths.	1896.	73	67	89	က	15	I	1	-	67	93	52	41
	1895.		23	54	23	∞			,1	2	74	34	40
	Total.	67	30	200	11	59	1	1	4	19	315	143	172
	Total.	50	1,212	1,174	14	396	11	-	24	384	3,265	1,113	2,152
ified.	1899.		346	258	,	100	į	1	ಣ	85	793	213	580
New Cases Notified.	1898.		492	197	,—1	69	.		ro	99	830	330	200
New Ca	1897.	1	126	176	4	79	2		6	70	466	155	311
	1896.	50	132	293	4	84		Programma	4	73	640	262	378
·	1895.		116	250	4	64	G		ಣ	06	536	153	383
		9	•	•	•	•	•	•	•	•	•	•	•
		:	•	:	dn		:	•	•	:	•	•	•
		Small Pox	Scarlatina	Diphtheria	Membranous Croup	Enteric Fever	Continued Fever	Relapsing Fever	Puerperal Fever	Erysipelas	Total	Urban cases	Rural cases

TABLE VIII.—Showing the New Cases of Infectious Diseases notified in the Rural Districts during the five years, 1895-99, 1899. 188 2 37 10 1898. 33 29 9 ೧೦ 10 1897. 25 ಣ -1 Deaths. 1895. 1896. 10 24 S 9 3 41 25 40 Ç7  $\infty$ 30 Total. 133 43 57 172 3 91 **C**1 the deaths therefrom. 2,152 32 793 734 12 316 10 14 Total. 241 1899. 182 72 46 580 277 **C1** New Cases Notified. 1898. 249 52 153 500 41 1896. 1897. 74 114 46 67 01 4 311 32 95 99 48 378 134 **C3** 1895. 59 383 98 09  $\infty$ ೧ 151 4 • • • • . • • Membranous Croup Disease. Continued Fever Relapsing Fever Puerperal Fever Total ... Small Pox ... Enteric Fever Erysipelas ... Scarlatina ... Diphtheria ...

#### ZYMOTIC MORTALITY.

Out of 1,836 deaths from all causes in 1899, 173 were due to this class of disorders, or 1.37 per 1,000 persons living.

In England and Wales the rate from only the seven principal zymotic disorders was equal to 2.21 per 1,000 persons living, against 2.22, 2.14, 1.90, 2.00, 2.52, 1.81, 2.17, 2.21, 2.17, and 2.22 in the ten preceding years.

There were in this district 58 deaths, or 0.46 per 1,000, from diseases in 1899, which are notifiable, and 115 deaths, or 0.91 per 1,000 in the other class, where the number of cases cannot be obtained.

Notifi	lable.		Not-notifiable	
Diseases.		Deaths.	Diseases.	Deths
Diphtheria Membranous Cro Typhus Enteric Continued Relapsing Puerperal Cholera	oup	none 18 none none none none	Measles	2 29 79 5
	Total	al 58	Total	115

There were 68 deaths from Influenza.

The Infectious Disease (Notification) Act, 1889, came into operation at various periods in the years 1890 and 1891, except in Horsham Urban District where it came into operation on July 8th, 1896.

In each quarter of 1899 the new cases of Infectious Disease were thus registered:—

		1st Qr.	2nd <b>Q</b> r.	3rd Qr.	4th Qr.	Year.
Small Pox		3			Programme (Control of Control of	Proposition of the last of the
Scarlatina		60	48	96	142	346
Diphtheria		43	<b>3</b> 9	77	99	258
Membranous Croup		-	-		1	1
Enteric Fever		15	25	41	19	100
Continued Fever		*	-		-	-
Puerperal Fever	. ,	3				3
Erysipelas		20	15	23	27	85
Total	• •	141	127	237	288	793
Urban Cases		34	24	65	90	213
Rural Cases		107	103	172	198	580

-Showing the Deaths and Death-rate from Zymotic Diseases in the Rural Districts in the twenty-years, 1876-95, and in 1896-99. TABLE IX.-

ıal	per sons		Total.	148	145	122	125	122	100	66	119	131
-	# T.	living.	Von- elfahiton.	98	09	75	63	74	7	64	74	7.1
Me	Deat 100,		Notifiable.	62	85	47	62	48	29	35	45	09
			[stoT	517	583	501	529	104	98	81	86	2,499
	Total.		-noV .9ldsilitoV	300	242	309	267	63	61	52	61	1,355
	To		.9ldshitoM	217	341	192	262	41	25	53	37	1,144
le.	Yer.	79A	Rheumatic	10	15	10	19	ಣ	ಸರ	6.1	ಸರ	69
tifiab			Diarrhea.	118	92	105	7.9	10	22	<b>18</b>	31	492
Non-notifiable.	.dgi	uoD	SniqoodW	124	100	136	111	37	23	10	24	565
Z			Measles.	48	35	50	58	13		70	-	229
			Erysipelas.	14	36	16	20	-	4	ಣ	-	95
			Puerperal.	15		$\infty$	ଚୀ			_		37
	ers.		Continued.	10	70	<b>67</b>		1				17
je.	Fevers		Enteric.	46	22	52	29	10	1-	9	22	257
Notifiable.			Typhus.	4.	10	4	1					13
Z		S	Membranou Group.			]	13	6.1	ಣ	_		20
	0		Diphtheria.	99	147	83	144	24	;	<u> </u>	18	506
			Scarlatina.	56	73	25	10	67	1	20	70	176
			Small Pox.	9	7	67	9	67				23
			Period.	1876-80	1881-85	1886-90	1891-95	1896	1897	1898	1899	Total

Table X.—Showing the Deaths and Death-rate from Zymotic Diseases in the Urban Districts in the twenty years 1876-95, and in 1896-99.

ual	rate per persons		. Total.	184	107	160	250	253	144	133	170	175
Mean annual			-noV. .9ldshiton	113	69	66	98	108	22	107	122	96
Me	Death-100,000	•	Notifiable.	7.1	88	61	152	145	29	26	48	13
			Total.	129	104	177	416	91	54	57	75	1,103
	tal.		-noVl solds:biton	79	67	109	163	39	29	46	54	586
	Total.		Notifiable.	50	37	89	253	52	25		21	517
e.	. <b>1</b> 9	Теу	Rheumatic	က	ĭĊ	ĬĊ	4	7		!	1	20
tifiab			Diarrhæa.	34	28	36	59	9	<del></del>	32	48	254
Non-notifiable.	'ų2	Bnoc	) ZaiqoodW	27	4	55	39	12	17	က	10	172
Ž			Measles.	15.	20	13	61	19	1	-	-	140
			Erysipelas.	ଚୀ	4	70	12				67	26
			Puerperal.	4	~~	r=4	ಣ	<del>,</del>	1	-		
	ers.		Continued.	7	ಣ				1	1	1	50
le.	Fevers.		Enteric.	1-	12	17	181	70	4	,(	9	233
Notifiable.			Typhus.			1			1	1	!	
No		SI	Membranou Croup.				67	$\overline{}$	1	1		4
			Diphtheria.	10	10	19	45	44	19	ಶ	12	164
			Scarlatina.	26	1-	24	9		67	4		69
			Small Pox.	1	1	<del></del>	4		1	-		\ \
		Period.		1876-80.	1881-85	1886-90	1891-95	1896	1897	1898	1899	Total

TABLE XI.—BRIGHT SUNSHINE.

n.	Jan. 1 to Dec. 31.	400	36	33	43	34	40	36	33	36	45	88
Percentages of possible duration.	Jan. 1 to Sept. 30.	35	26	42	46	37	42	38	40	38	4.8	40
ercentages of p	Jan. 1 to June 30.	34	35 25	41	46	26	200	ž.	36	32	433	38
<u></u>	Jan. 1 to Mar. 31.	24	3]	25	34	32	27	20	ଫୁ	26	38	28
	Jan. 1 to Dec. 31.	1,491	1.563	1,684	1,875	1,579	1,776	1,608	1,696	1,535	1,983	1,679
of Hours.	Jan. 1 to Sept. 30.	1,265	1,336	1,477	1,635	1,357	1,567	1,353	1,439	1,346	1,727	1,450
Number of Hours.	Jan. 1 to June 30.	753	841	955	1,047	106	915	827	829	715	979	876
	Jan. 1 to Mar. 31.	. 222	281	267	308	354	277	202	219	227	346	270
	YEAK.	1890	1891	1892	1893	1894	1895	9681	1897	1898	1899	Mean

TABLE XII.—ACCUMULATED HEAT.

	Jan. 1 to Dec. 31.	758	721	759	559	388	921	464	377	282	467	569.6
below 42° F.	Jan. 1 to Sept. 30.	305	565	554	373	303	755	237	297	234	294	391.7
Day degrees below 42° F.	Jan. 1 to June 30.	305	565	554	373	303	755	237	297	234	294	391.7
	Jan. 1 to Mar. 31.	271	515	490	353	300	721	213	277	218	266	362.4
	Jan. 1 to Dec. 31.	3,285	3,114	3,053	3,799	3,403	3,400	3,454	3,554	3,710	3,815	3,458·7
above 42° F.	Jan. 1 to Sept. 30.	2,802	2,658	2,685	3,327	2,822	2,894	3,059	2,980	3,001	3,262	2,949.0
Day degrees above 42° F.	Jan. 1 to June 30.	1,227	1,128	1,161	1,579	1,282	1,142	1,378	1,302	1,204	1,364	1,276.7
	Jan. 1 to March 31.	254	155	156	302	298	103	273	246	251	332	237.0
	Year.	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	Mean

TABLE XIII.—CLIMATE OF WORTHING.

			<b>A</b>	Temperature,	Ř			Amount	R	RAIN.
Month.			MEANS.			Extr	EXTREMES.	of .	Amount	ount No. of
	9 a.m.	Min.	Max.	Range.	Mean.	Min.	Max.	Cloud.	at Ellesmere	Wet Days.
	deg.	deg.	deg.	deg.	deg.	deg.	deg.			
January	42.6	38.6	6.74	0.6	43.4	30.9	53.4	8.9	2.625	20
February	41.8	37.5	48.3	10.8	42.9	26.4	26.8	5.0	3.149	13
March	41.1	34.3	48.8	14.5	41.5	23.7	58.0	3.0	0.923	6
April	48.1	42.3	52.0	2.6	47.1	31.8	0.76	6.3	2.288	22
May	52.7	7.77	58.1	13.4	51.4	35.9	8.49	4.9	1.512	6
June	62.1	51.9	67.5	9.91	2.69	44.0	0.22	3.8	0.918	9
July	0.29	57.4	2.17	14.1	64.5	0.09	81.4	3.8	1.275	ಹ
August	0.69	58.4	74.3	15.9	66.4	52.0	84.4	4.3	0.406	<u></u>
September	6.69	51.4	6.99	14.9	58.8	38.9	0.62	4.4	4.566	14
October	9.19	45.4	59.3	13.9	52.3	9.48	63.7	4.5	1.910	11
"November	48.7	44.1	53.8	2.6	48.9	32.9	60.5	2.9	4.935	10
December	38.0	33.5	43.4	6.6	38.4	23.6	54.0	6.5	1.720	18

										<del></del>								
144	158	172	152	161	184	142	141	172	149	159	181	137	164	156	126	174	180	142
26.23	22.51	26.07	25.74	26.09	35.71	25.12	23.73	29.86	22.84	23.92	25.88	21.28	31.89	28.09	23.51	26.05	32.35	29.60
5.1	7.1	7.3	0.2	6.4	9.9	5.5	ىر 8	5.9	6.5	6.4	6.4	2.4	5.00	2.2		2.2	5.8	5.6
84.4	6.08	2.08	2.08	6.22	80.2	84.7	0.92	0.22	0.82	81.5	8.82	85.0	0.84	81.7	83.3	7.67	81.0	82.0
23.6	0.72	21.9	22.9	16.5	12.9	18.2	20.5	16.5	14.9	21.9	20.5	17.4	23.2	25.3	0.72	23.3	9.97	13.5
51.3	51.6	20.8	49.9	49.3	50.3	6.09	48.2	48.4	48.4	48.8	47.8	6.17	49.6	49.4	51.5	49.6	20.8	49.2
12.6	11.9	12.2	13.2	12.5	10.9	13.7	12.7	12.2	12.4	12.1	10.9	12.5	11.2	1-1-4	11.2	12.0	11.4	11.6
57.6	9.19	. 56.9	56 5	55.5	55.8	2.7.2	54.5	54.8	54.6	54.8	53.3	54.1	55.2	55.1	56.8	55.9	56.5	55.0
45.0	45.7	7.74	43.3	43.0	44.9	44.0	41.8	42.4	42.2	42.7	42.4	41.6	44.0	43.7	45.6	43.9	45.1	43.4
51.9	52.2	51.4	51.0	50.4	51.2	52.3	49.1	49.4	49.4	49.5	48.0	48.4	50.0	20.0	52.0	20.2	51.6	50.3
	•					•		•										
1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	888	1882	1881
Year													£ :					

#### SALE OF FOOD AND DRUGS ACT, 1875 AND 1879.

Summary of the report of the County Analyst, Otto Hehner, Esq., appointed for the Council of West Sussex, upon the articles analysed by him under the above Acts during the year 1899.

#### First Quarter, ending March 31st, 1899:—

Article.

Result.

Milk, 7 samples ... 6 genuine, 1 adulterated with 15 per centwater.

Olive Oil, 6 samples .. All genuine.

Total number of samples analysed during the Quarter, 13. Adulterated, 1.

#### Second Quarter, ending June 30th, 1899:—

Spirits, 21 samples ... 18 genuine, 3 watered with 12.8, 2.9, and 2.1 per cent. water.

Milk, 6, ... All genuine.

Total number of samples analysed during the Quarter, 27. Adulterated, 3.

## Third Quarter, ending September 30th, 1899:—

Brandy, 14 samples ... 12 genuine, 2 watered with 4 6 and 5.3 per cent. water.

Golden Syrup, 14 samples 10 passed as genuine, 4 adulterated with 38, 43, 44, and 71 per cent. glucose syrup.

Milk, 9 samples ... 8 genuine, 1 adulterated with 24 per cent. water.

Total number of samples analysed during the Quarter, 37. Adulterated, 7.

# Fourth Quarter, ending December 31st, 1899:

Golden Syrup, 28 samples 21 genuine, 7 adulterated with 30, 25, 30, 47, 55, 80, and 10 per cent. starch glucose.

Brandy, 7 samples . All genuine.

Total number of samples analysed during the Quarter, 35. Adulterated, 7

	No. of	Posmlt	of Analysis	Adulte	erated.	
Year ending Dec. 31st.	Samples Analysed.	Genuine.	of Analysis.  Adulterated.	By Added Water.	By Substitutes.	Convictions.
1891	121	101	20	18	2	-
1892	84	73	11	10	1	administrative to
1893	61	51	10	6	4	
1894	199	173	26	12	. 14	19
1895	83	70	13	7	6	12
1896	122	116	6	4	2	4
1897	156	146	10	9	1	7
1898	134	125	9	5	4	
1899	112	94	18	7	11	Withouse the
	Variable and the state of the s					
Total	1,072	949	123	78	45	
TD.	100	NO.E	11.5	7.9	4.9	
Per cent.	100	88.5	11.5	7.3	4.2	

#### COST OF WORKING THE ACTS.

Year ending Dec. 31st.		ees fo			riage tage,			ses in btain ples,	ing		rinting &c.	g;	ני	otal.	
	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.	£	s.	d.
1894	104	9	6	5	9	8	7	19	1	0	12	6	118	10	9
1895	43	11	6	0	10	3	9	3	9	0	5	3	53	10	9
1896	63	1	0	0	17	9	9	3	3	2	2	9	75	4	9
1897	81	18	0	1	3	3	10	15	11	0	8	7	94	5	9
1898	70	7	0	1	3	6	11	14	2	1	2	3	84	6	11
1899	58	16	0	1	1	2	9	15	9	0	7	8	70	0	7
							VII.10			***************************************					
Total	422	3	0.	10	5	7	58	11	11	4	19	0	495	19	6

The totals are not the same as in the published returns, because the financial year of the County Council ends on March 31st in each year.

The following return, covering a period of  $10\frac{1}{2}$  years, is of interest as it shows a very satisfactory condition as regards the quality of the food supplies in West Sussex.

Particulars of samples of food and drugs submitted to Public Analyst during the period from the quarter ended June 30th, 1889, to the quarter ended December 31st, 1899, both quarters inclusive.

	mber of I	Result of	Analysis.  Greatest Amount of Adulteration of
	antpres nalysed. G	denuine. A	Adulterated. any one Article.
Spirits	148	134	14 · 22·4 per cent. of added water.
Whiskey	257	205	52 45.6 per cent. of added water.
Brandy	62	57	5 5.3 per cent. of added water.
Gin	3	3	
Rum	1	1	
Beer	9	9	
Ale	1	1	······································
Porter	1	1	
Stout	1	1	
Coffee	<b>3</b> 3	30	3 75 per cent. of Chicory, but was labelled "Mixed with Chicory."
Butter	169	166	3 One entirely of margarine; one with 97 per cent. of margarine.
Bread	15	15	
Milk	246	226	20 One skimmed and watered; one with 24 per cent. of added water.
Vinegar (Malt)	99	28	5 One with 50 per cent. of added water; four were not malt vinegar.
Pepper	9	9	
Mustard	2	2	
Lard	28	18	10 15 per cent. of beef stearine.
Cheese	21	20	1 One made from skimmed milk.
Olive Oil	. 85	72	13 Five entirely of cotton seed oil.
Tea	. 7	7	uniprissib.
Ipecacuanha Wine	e 3	3	energly-me
Ginger (Ground	7	7	_
Castor Oil .	. 7	7	
Cod Liver Oil .	. 1	1	
Yeast	. 3	1	2 One with 34 per cent. of starch.
Golden Syrup .	. 42	31	11 80 per cent. starch glucose.
Flour	. 7	7	17 Market State
Bread	. 7	7	American
Oatmeal .	. 2	2	
Total	1210	1071	139
Per cent.	100	88.5	11.5

#### WORTHING CORPORATION OBSERVATORY.

The observations, which were commenced on July 1st, 1898, have been continued regularly during the past year.

The instruments remain in precisely the same position as in 1898; they were obtained from Messrs. Negretti and Zambra, and each instrument has been verified and corrected at the Kew Observatory.

Two additions have been made during the year; a new earth thermometer has been sunk to a depth of 6 feet, and daily observations have been taken from it at 9 a.m., since March 1st; a Jordan photographic recorder has been put up by the side of the Campbell Strokes' recorder, and daily registers have been taken since January 1st, 1899.

#### BRIGHT SUNSHINE

The Campbell Strokes' sunshine recorder is placed on a platform raised ten feet above the roof of the Observatory, so that it is in a favourable position for recording observations. The recorder consists of a 4in. globe of glass, so fitted that when the sun shines brightly its rays burn a line on a card prepared for the purpose, and thus the daily amount can be easily recorded.

The year 1899 was remarkable for a large excess of bright sunshine; in nearly each month the amount was above the average.

Table XI. p. xx. gives the number of hours in the South of England for the ten years, 1890-99, and it will there be seen that the past year is the brightest of the series. In 1893 there was a large amount of sunshine in the first half of the year, but the second half was not so bright. During the past twenty-two years in which similar observations have been made, there has been no year giving such high results as 1899.

The dullest year on record was 1879, when only 983 hours were recorded in the South of England against 1,983 in 1899.

The cards are measured by a glass scale, which was obtained at the Meteorological office, and this is a more accurate method than any other. The cards have also been sent up to the Meteorological office for the purpose of having the measurements checked, and the result was most satisfactory, as the records were in very close accordance.

I am, indeed, much indebted to the Secretary for much help and advice given to me on several occasions.

The following memorandum issued by the office has proved very useful:—

#### TABULATION OF SUNSHINE.

"The following memorandum has been prepared in reply to various questions which have from time to time been addressed to this office, as to the way in which the traces on the cards obtained from the Stokes sunshine recorder ought to be measured.

The points on which observers have generally asked for information have been two:—

- 1. How to deal with cases in which the scorch is *faint* such as is usually the case near sunrise and sunset, or when the sun is shining through a slight haze.
- 2. How much of the trace to measure when the sun has been shining brightly but intermittently, or when a strong burn has been abruptly stopped.

In the first of these cases it is recommended that the whole of the trace, as far as it can fairly be seen, should be measured, the measurement being carried right to its extreme ends.

In the second case it must be remembered that when the sun is shining with moderate power there is always a slight lateral extension of the trace, due to the smouldering of the card, and in consequence the trace will probably be as long for one minute of sunshine as for two or three. For this smouldering a slight allowance should be made, and the measurement should not in such cases be carried to the extreme limits of each of the burns. It is difficult to lay down a hard-and-fast rule which shall meet every case, because special circumstances may easily occur in which such a rule ought to be modified, and therefore something must necessarily be left to the judgment of the observer. He cannot however go far wrong if he will always be careful not to strain the record unduly, remembering that what is required is not so much a large total as a correct one.

In using the glass scale the parts of hours should be measured to tenths, and not to minutes; and the scale ought to be so placed upon the card that one of its curved lines may correspond to the outer edge of the card."

I give here a table showing the amount of bright sunshine registered here by each instrument during the past year, with the percentage of possible duration and the number of sunless days.

			Campbell S Hours.	tokes. Per cent.	Jordan. Hours.	Sunless days.
January			78.4	30.2	72.8	10
February			125.1	45.1	126.1	6
March			199.5	54.4	201.9	1
First Qu	artei	L'	403.0	44.6	400.8	17
April			164.8	39.7	154.9	3
7.5			254.3	52.7	227:3	0
			291.9	59.0	280.6	0
Second G	Quart	er	711.0	51.1	662.8	ď
July			298.7	60.2	299.8	0
August			298.4	66.5	$287 \cdot 3$	0
September			200:3	53.0	195.9	()
Third Q	uarte	er	797.4	60.3	783.0	0
October			173.1	52.7	163.8	4
November			$64 \cdot 2$	24.3	57.8	12
December			58.0	23.9	45.6	12
Fourth	Qua	rter	295.3	35.3	267.2	28
Total for	the	year	2206.7	50.0	2113.8	48

More bright sunshine is registered in the South of England than in any other part of the kingdom, and Sussex seems the sunniest county in the country.

At each of the five stations in Sussex using the Campbell Stokes' recorder the following amounts were registered last year:—

Station.			>		Hours.
Worthing					2207
Bexhill on-S	ea	, ,		• •	2186
Hastings					2130
Eastbourne					2119
Brighton					2110

Most observers have found that the Jordan instrument gives higher results than the Campbell Stokes, but I have not found this to be the case. I much prefer the Campbell Stokes recorder, as it appears to be more accurate and to leave less to the imagination.

#### RAINFALL.

The rain gauge is near the centre of the lawn; it is 8in. in diameter, and the top is 1 foot above the ground level, and 33.75 feet above Ordnance Datum.

The 5in. gauge, which has been in use for many years, is on my lawn, about one-third of a mile west of the Observatory; its top is 1 foot. above the ground level and 26:16 feet above O.D.

The total amount of rainfall for 1899 was again below the mean for 1852-96, as it was in the previous four years. The drought, however, was not so marked as in the dry period from May 1st, 1897, to October, 1898.

On September 29th, 1899, there was a very heavy fall of rain when 2.645in, of rain were measured in my 5in, gauge in the twenty-four hours; of this amount, 2.485in, fell from 1 p.m. to 7.45, p.m., and 0.160in, fell between 7.45, p.m., and 9 p.m., when the rain ceased; the down-pour was greatest between 4 p.m. and 6 p.m. The wind blew from E. to S.E. and the barometer fell rapidly all day from 29.773 at 9 a.m. to 29.342 at 9 p.m. There was high water at 7.37 p.m., so that the sewers were tide-locked and many basements were flooded.

The rainfall varied somewhat in different parts of the town, and in places a few miles distant not more than 1in. of rain was recorded.

The highest amount previously recorded here, so far as I can find, was 2·110in. on October 15th, 1882. Most storms here arise with a S.W. wind, but in this case the wind was S.E.

I give here the amount of rainfall measured in 1899:—

1899.		Sin. gauge.	5in. gauge. in.	No. of wet days.	Mean fall 1852-96. in.
January	• •	2.600	2.625	18	2.55
February	• •	3.136	3.149	13	1.80
March	• •	0.965	0.923	10	1.70
April		2.314	$2 \cdot 288$	20	1.56
May		1.530	1.512	9	1.77
June		0.930	0.918	6	1.95
July		1.340	1.275	5	2.08
August		0.408	0 406	7	2.34
September		4.156	4.566	14	2.72
October		1.920	1.910	11	3.89
November	• •	4.835	4 935	10	3.04
December		1.763	1.720	18	2.55
Total year		25.897	26·2 <b>2</b> 7	141	27.95

Less rain falls along the coast south of the Downs than in the Weald or in places west of the river Adur.

This table gives the rainfall for ten years in four places in different parts of West Sussex:—

Year.	Worthing. Author.	Arundel. A. Holmes, Esq.	Westbourne. Rev.E.L.Birkett.	Horsham. H. Padwick, Esq.,M.A.
1890	22.84	25.72	$24 \cdot 13$	25.87
1891	29.86	32.89	35.94	34.84
1892	23.73	27.62	26.95	27.53
1893	25.12	$26 \cdot 21$	25.75	25.06
1894	35.71	37.73	39.04	42.18
1895	26.09	30.27	29.34	31.36
1896	25.74	28.35	27.74	33.01
1897	26.07	32.45	31.13	32.95
1898	22.51	26.50	$26 \cdot 22$	27.94
1899	26.23	25.11	26.80	28.67
				•
Mean	26.39	$29 \cdot 28$	29.50	30.94

#### BAROMETER.

The Fortin standard barometer is placed so that the level of the top of the mercury is 30.9 feet above Ordnance Datum. To the brass stem of the barometer a delicate thermometer is attached, so that the temperature is known at the time of each observation. Corrections have to be made, so as to reduce the readings to sea level, and to a temperature of 32° F.

The corrected readings for the past year, taken each day at 9 atm., are here given:—

0		Max. in.	Min. in.	Mean.
January		30.655	28.961	29.890
February		30.725	29.376	29.928
March		30.694	$29 \cdot 129$	30.135
April	• •	30.309	29.003	29.878
May		30.486	$29 \cdot 456$	30.056
June		30.442	$29 \cdot 425$	30.105
July		30.436	29.596	30.109
August	• •	30.428	29.823	30.109
September	• •	30.258	29.363	29.919
October	• •	30.434	$29 \cdot 343$	30.095
November	• •	30.707	29.508	30.248
December	• •	30.557	28.733	29.938

The highest reading was 30.725in. on February 28th, during a long anticyclonic period; the lowest reading was on December 29th; on this day there was a great gale from the south-west, not, however, accompanied by much rain; at 9 a.m. the barometer stood at 28.733in., and then the mercury fell all day to 4.30 p.m., when it stood at 28.420in., rising gradually in the evening.

#### AIR TEMPERATURE

There are four thermometers placed in a Stevenson screen near the centre of the lawn at the Observatory; they are thus always in the shade, for the screen is so made as to exclude rain and direct sunshine, while it allows a free current of air. xxxii.

The obervations are taken at 9 a.m. daily. The dry thermometer shows the temperature at any given time, and the wet bulb varies according to the amount of moisture in the air, so that it records a lower temperature than the dry bulb.

The maximum and minimum thermometers register respectively the highest and lowest temperatures in the previous twenty-four hours.

Table XIII. p xxii. gives the values recorded by these instruments in each month of the past year.

# TEMPERATURE OF THE SOIL AT 9 A.M.

There are four thermometers of special construction, which are enclosed in iron tubes and so suspended that each bulb is respectively 1 foot, 2 feet, 4 feet, and 6 feet below the surface of the grounds.

The 6ft. thermometer was placed in position on March 1st, 1899, and daily observations at 9 a.m. have been taken since that date.

The soil in which the four instruments are sunk is a sandy loam, well drained, and not capable of being water-logged; the sub-soil water runs towards the sea at a depth from 15 to 20ft. below.

The accompanying chart shows the mean weekly temperature registered by each instrument. The 1ft. thermometer is most exposed to external influences, and it feels, more acutely than the rest, the cold of winter and the heat of summer.

The 6ft. thermometer is less disturbed by these conditions, and it pursues a very even course, subject to no marked daily variations. In like manner the 4ft. instrument has a more even curve than the 2ft. The chart also shows that the deeper the instrument is placed, the slower it is in feeling the effects of temperature. Thus the highest point in the summer is reached first by the 1ft., and last by the 6ft. thermometer, and likewise in the winter the 1ft. instrument is the first to reach the minimum. Thus there are two periods in the year when there is, as it were, a jumble in the readings, and at these times the reading of all the instruments are nearly the same. These periods occurred last year in the first fortnight of April and in the middle fortnight of September, so that the position of the readings is reversed in summer and winter.

The daily observations show these points more clearly, as the mean weekly records cannot show the extremes.

March appears to be the month in which the sub-soil is coolest, and August the month in which it is warmest.

The variation in the mean readings is highest for the 1ft., and least for the 6ft. thermometer.

The mean for each instrument for the whole year gives no idea of the variations that have actually taken place.

The extreme daily readings during the past year are shown by the vertical lines to the left of the chart:—

	1ft.	2ft.	4ft.	6ft.
Maximum	 68.8	66.3	62.7	60.8
Minimum	 37.1	40.5	44.5	46.4
Variation	 31.7	25.8	18.2	14.4

The following table gives the mean reading for each month and the monthly variation between the maximum and minimum readings.

	Me	an for e	ach Mon	th.		Varia	ation.	
1899.	1ft.	2ft.	4ft	6ft.	lft.	2ft.	4ft.	6ft.
January	 43.6	45.2	47.8		9.0	4.6	1.2	
February	 42.6	43.8	45.8		8.9	5.5	1.7	
March	 41.9	43.3	44.6	Parallel coor floor floor floor	$9 \cdot 2$	4.5	0.7	
April	 48.5	48.2	$47 \cdot 4$	47.6	5.3	4.6	3.6	$2 \cdot 2$
May	 $54 \cdot 2$	53.3	51.1	50.2	6.6	5.3	3.9	3.1
June	 61.4	59.6	55.8	53.8	5.5	5.7	4.6	3.6
July	 65.0	63.1	59.4	$57 \cdot 1$	7.7	4.9	3.5	3.3
August	 66.9	$65\ 5$	62.3	60.0	4 4	1.5	1.4	1.9
September	 60.6	61.8	61.3	60.5	12.7	8.0	3.5	1.3
October	 52.4	54.0	56.0	57.4	6.7	$4 \cdot 4$	4.6	$3\cdot4$
November	 50.0	51.4	53.3	54.8	9.0	5.8	3.4	$2 \cdot 3$
December	 41.8	44.3	48.4	51.2	10.1	$7 \cdot 0$	5.5	$4 \cdot 3$
						-		
Mean	 $52 \cdot 4$	51.1	51.1		7.9	5.1	3.1	

The persistent high temperature of the sub-soil was accompanied by an unusual amount of diarrhea throughout the country, and the infant mortality was much above the average.

There were 38 deaths of infants and young children from diarrhea in the third quarter of the year in the four urban districts of Worthing, Horsham, Littlehampton, and Portslade-by-Sea, and to this number I have added the deaths of 13 infants from gastro-enteritis, &c., which includes some forms of disease which in former years would have been classed as diarrhea.

These four populous areas have an estimated population of 41,600. In July there were no deaths, but in August there were a few, and the number increased considerably in the first half of September, after which period the mortality quickly declined. The following table gives the number of deaths week by week, and it should be examined with the aid of the chart which shows the various sub-soil temperature for the corresponding periods.

The 1ft. thermometer reached its highest point on August 6th, and then it gradually fell; the 2ft. thermometer reached its highest point on the same day, and it remained high for a fortnight, when it slowly xxxiv.

fell, but less rapidly than the 1ft. In the first half of September the readings of these two thermometers were distinctly lower than in the first half of August.

The 4ft. thermometer was high on August 19th, highest on August 30th and 31st, and it remained very high until September 13th, when it began to fall steadily.

The 6ft. thermometer was highest from August 28th to September 18th, when it also began to fall, but less rapidly than the other instruments.

Thus in the last week in September the readings were quite altered as regards position; the lft. thermometer was lowest, and the 6ft. thermometer was highest. The deeper the instrument was placed in the earth, the slower were they in reaching their highest readings, and the slower were they in falling when the cool days and nights of September affected the bulbs nearer the surface. The 4ft. thermometer reached 56 deg. F. on June 14th, and its reading were never as low again until October 15th. It rose steadily all through July and August until it reached its maximum of 62.7° on the last two days of August; there were after that date many cases of diarrhea, but not in July when the earth temperatures were much higher than usual.

The 6ft. thermometer did not reach 56 deg. F. until July 4th, and its readings were never as low again until October 25th. It also rose steadily all through July and August, and it reached its maximum of 60.8° on August 28th, where it remained until September 17th; it was during this period that infantile diarrhæa was most prevalent.

			DIAI	RRHŒA.		ENTER	RITIS.
Wee	ek ending,		М.	F.		M.	F.
August	$5 ext{th}$		1	1	• •		
"	12th		1	1		1	2
,,	19th		2	2		2	2
<b>??</b>	26th	• •	1		• •	_	1
Septembe	er 2nd		5	5		_	3
27	9th	• •	4	6		PARA - Alaska	
"	16th	• •	2	4		1	1
27	23rd	• •	1	1			
,,	30th	• •		1			
То	otal	• •	17	21	• •	4	9
			3	8		1	.3
					51		

The infant mortality is here shown as regards age and sex:—

		Under M.	1 year. F.	1 to M.	2. F.		o 3. F.		Total.
Diarrhœa	• •	13	16	2	3	2	2	ar-eniaserellerald	38
Enterititis		3	8	1	1	anniam-filmidi		nady) named like	13
		Agentamia	-	tun-umanaca :		and an electrical design of the second secon			
Total		16	24	3	4	2	<b>2</b>	**************************************	51
			_	<u></u>		_	<b>-</b>		
		4	0:		7		4		

#### SOLAR RADIATION.

Two thermometers, each enclosed in a glass shield in vacuo, are placed horizontally on a stand raised 4ft. from the ground with the bulbs directed to the south-east

One instrument has a blackened bulb whereby the intensity of the solar heat is measured; the other instrument has a bright uncoated bulb; the difference between the two readings measures the amount of solar heat when it has arrived within our atmosphere.

These observations only give the highest point reached each day, but they do not tell how long the period lasts. Intensity but not duration is shown.

The means for each instrument show a steady rise from January to August, and then a more rapid fall to the end of the year. The variations in the mean readings are much greater in the summer, than in the winter months.

189			Black Bulb		Mean	Bri	ght Bul	b.
		Max.	Min.	Mean.	Variation.	Max.	Min.	Mean.
January		93.8	<b>50·</b> 8	71.5	16.8	66.0	46.0	54.7
February	•	101.9	47.8	82.7	$24 \cdot 1$	71.5	40.9	58.6
March		115.0	66.8	96 7	32.9	74.0	50.0	63.8
April		119.3	$64 \cdot 2$	105.4	36.4	$77 \cdot 2$	49.1	69.0
May		128.0	105.0	116.9	39.5	86.9	71.0	77.4
June .		135 0	118.5	123.4	37.9	94.9	<b>79.5</b>	85.5
July		133.5	112· <b>0</b>	126.4	36.8	99.0	$82 \cdot 2$	89.6
August	• •	135.5	116.0	126.6	35.1	101.0	82.7	91.5
September		136 4	80 9	115.8	3 <b>3·</b> 7	97.1	61.0	82.1
October		115 0	62.9	97.8	$27 \cdot 2$	78.0	54.5	70.6
November		102 9	51.8	78.6	18.2	<b>73.</b> 0	47.0	60.4
December		83.2	38.9	61.3	13· <b>5</b>	61.2	35.4	<b>4</b> 7·8

#### SUB-SOIL WATER.

The Observatory Well is situated in the basement of the house; it is dug in a sandy loam down to a running sand overlying chalk marl. It is  $21\frac{1}{2}$ ft. in depth; the bottom of the well is  $5\frac{1}{2}$ ft. above O.D. and in the driest weather there have always been three or four feet of water in it. Fairlawn Well is situated in a garden 107 yards to the north-west; it is dug in similar soil to a depth of about 30ft. Each well is covered over, and no water from the surface can enter accidentally; neither well is used except for the purpose of these observations.

The depth of the water is measured by a jointed, wooden rod, so made as not to allow of expansion or contraction; the last joint has a shoe of lead so as to facilitate its descent, and it is graduated in feet and inches. The whole is painted a dull black so that the water mark is clearly discernible.

Daily measurements are now taken at 9 a.m. of the distance of the level of the water from a known and fixed point at the surface of each well, the height of each such point above Ordnance Datum being first accurately determined.

This plan is obviously better than that of measuring the depth of water in the well on any given day, as the bottom of the well may be a variable quantity.

The fixed point at the Observatory is 26ft. 11in. above Ordnance Datum; the fixed point at Fairlawn is 33ft 2in. above Ordnance Datum. The Observatory Well is sunk in the basement which is about seven feet lower than the surface of the ground around, hence the difference in the heights.

Although the wells are so near each other, and the subsoil appears to be the same, yet the level of the water at Fairlawn is persistently from one to four inches higher than at the Observatory Well, but the rise and fall in each follows a precisely similar course. The deeper the water in the well, the greater is the difference.

On January 1st, 1899, the level of the water in the Observatory Well was 9ft. 5in. above O.D. Then there came a wet period, and in the first six weeks of the year, 5.736in. of rain fell. The water in the well rapidly rose, so that on February 17th the level stood at 12ft. 4½in., or a rise of nearly 3ft. This was the highest point reached during the year, but although March was a dry month, the level remained high until the middle of April when it began to decline. A heavy fall of rain on April 24th caused a slight rise, and then the descent was uniform and steady until the end of July. May was a fairly dry month, June was very dry, and in July hardly any rain fell until the 22nd and 23rd, when 1.225in. were registered; this fall caused a slight rise in the water level, but very soon the decline was resumed, and the level stood at 8ft. 63in. on September 29th. August was a very dry month, and September was also a dry month until the 26th, but during the last five days of September the rainfall was very heavy and 3.912in, were registered in my gauge. This caused a sudden rise

of nearly ten inches on September 30th, and the weekly mean was affected to the extent of six inches. A dry October caused another decline, so that on November 1st, the level reached its lowest point, and it stood at 8ft. 6in. above O.D. The first ten days of November were very wet, and 4.835in. were then collected, but no rain fell during the rest of the month. The effect on the sub-soil water was very marked and the level stood at 10ft.  $9\frac{1}{4}$ in. on November 11th. At this time the ground was well saturated with water, and floods were common all over the low-lying lands in the county. Another decline then set in, and proceeded until December 1st, when the level had gone down to 9ft. 3in. A fairly wet December kept the level nearly the same throughout the month, so that on the last day of the year there was almost exactly the same amount of water in the well that there was at the beginning of the year.

Fairlawn Well showed similar variations.

The accompanying chart shows clearly the mean weekly height above O.D. of the water in the two wells; it cannot, however, give the daily extremes which have been above indicated.

The following table shows the level of the water in each well above Ordnance Datum on the first day of each month.

TEVE	T. OF	W	ATER	ABOV	TR (	0.1	D	
	ala VE	7.0	9 1 1 1 1 1 1		P <sub>1</sub>	1 /		

		tory Well.	Difference.		wn Well.
1899.	ft.	in.	in.	ft.	in.
January 1	 9	5 -	$1\frac{1}{4}$	9	$6\frac{1}{4}$
February 1	 10	$7\frac{1}{4}$	3	10	$10\frac{1}{4}$
March 1	 12	$0\frac{3}{4}$	4	12	$4\frac{3}{4}$
April 1	 12	1	$4\frac{1}{4}$	12	$-5\frac{1}{4}$
May 1	 11	$8\frac{1}{4}$	4	12	() j
June 1	 10	114	$3\frac{3}{4}$	11	$3\frac{1}{2}$
July 1	 10	$4\frac{3}{4}$	$3\frac{1}{2}$	10	$8\frac{\tilde{1}}{4}$
August 1	 9	$6\frac{1}{4}$	$2\frac{3}{4}$	9	9
September 1	 8	11	$1\frac{3}{4}$	9	$0\frac{3}{4}$
October 1	 9	$5\frac{1}{2}$	1	9	$6\frac{1}{2}$
November 1	 8	6	2	8	8
December 1	 9	3	$2\frac{1}{2}$	9	$5\frac{1}{2}$
December $31$	 9	$5\frac{1}{4}$	2	9	71

#### SWANDEAN.

Swandean was a large private house, situated on the south side of the Downs in the parish of Durrington, and distant about three miles from the centre of Worthing.

It stands on ground elevated about 140ft, above sea level, and it is surrounded by  $7\frac{1}{2}$  acres of land.

xxxviii.

It was purchased on behalf of the Worthing Corporation at the close of 1895, and on December 7th, 1895, the first cases were admitted.

There is ample room to build ward pavilions or isolation wards, but at present no material alteration has been made in the building. It has, however, proved very useful in isolating infectious cases from the Borough, although two different diseases cannot be treated satisfactorily at the same time.

A caretaker and his wife look after the household arrangements and the garden, and the nursing is under the superintendance of Miss Beck to whom I am much indebted for her skill and care in the treatment of the patients.

Since the opening there have been admitted 294 patients:—

		#00=					
	Dec. 7	1895. to Dec. 31	1. 1896.	1897	1893.	1899	Total.
SMALL-Pox—					,		
Cases			21			Salar Salar France	21
Deaths	• •	******	No. of Concession,	-		Page 1	
SCARLATINA							
Cases				22	124	24	170
Deaths	- , .		**************************************	No. of Street,		ALEXPONOMIC	e-marries
DIPHTHERIA—							
Cases		21	32	21	6	16	96
Deaths	• •	4	12	5	aparentage	6	27
ENTERIC FEVER-	name of the second						
Cases			179-07-0desage		1	6	7
Deaths				der rife-santigap			dominates
Total—							
Cases		21	53	43	131	46	294
Deaths	• •	4	12	5	distantive*4	6	27

I am indebted to Mr. L. H. Cheffins, the Assistant Town Clerk, for the following abstract of receipts and expenditure during the past three years, 1897-99:—

	RECEIPTS.	Expenditure.
	$\pounds$ s. d	£ s. d.
1897	24 10 1	481 12 9
1898	474 3 11	812 15 4
1899	217 1 4	539 2 2
	${\pounds715}$ ${15}$ ${4}$	£1,833 10 3
Excess	1,117 14 11	
	£1,833 10 3	£1,833 10 3

The excess, divided by three, shows an annual expenditure to be defrayed out of the rates of £372 11s. 8d.

Since 1d. in the pound brings in about £432, the yearly cost of Swandean is equal to four-fifths of a penny rate. The actual cost for the maintenance only of a patient varies from 6s. 6d. to 7s. per week.

By an arrangement with the East Preston Rural District Council arrived at last September an agreement was executed on September 13th, between that Council and the Worthing Corporation for the admission of persons suffering from infectious disease in the adjacent parishes of Broadwater, West Tarring, Durrington, Goring, Ferring, and Clapham, on certain conditions.

It has also been provided that pauper cases may be admitted to Swandean when it is deemed necessary, and then the charges for medical attendance, nursing, and maintenance will be defrayed by the Guardians.

During the year 1899, six cases from the rural district were admitted to Swandean from Broadwater; four cases of enteric fever from one house were paid for by the Guardians, one of diphtheria from private sources, and one of scarlatina by the Rural District Council.

Twenty-three cases of scarlatina, fifteen of diphtheria, and two of enteric fever were admitted from the Borough of Worthing.

It is most desirable that a ward pavilion should be erected for the reception of diphtheria patients, as it is important to keep them apart from the scarlatina cases; the matter is under the consideration of the Town Council.

(A)—Table of DEATHS during the Year 1899, in the COMBINI

(A)—Table of D.	ЕАТ	HS	dui	ing	the	Yea	r 1	899, in the $9$	COM	BIL	1
	M		LITY SUBJ			Caus	SES				
Names of Localities adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	es.	Under 1 year.	l and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and up- wards.		ll Pox.	Scarlatina.	
$(\alpha)$	(b)	(c)	(d)	(e)	( <i>f</i> )	(9)	(h)	(i)	Small	Scal	
Steyning West R.S.D	144	32	8	5	8	39	52	Under 5 5 upwards.		1	-
Steyning East R.S.D	42	3	14	ģ	2	7	7	Under 5 5 upwards.		1	
Horsham R.S.D	267	39	24	8	11	76	109	Under 5 5 upwards.			
Petworth R.S.D	105	24	2	3	2	33	41	Under 5 5 upwards.			
Thakeham R.S.D	107	21	12	2	6	36	30	Under 5 5 upwards.			
East Preston R.S.D	185	36	11	8	8	51	71	Under 5 5 upwards.		11	
Midhurst R.S.D	188	28	`14	8	9	52	77	Under 5 5 upwards.		1	The second secon
Westbourne R.S.D	111	17	9	3	8	30	44	Under 5 5 upwards.		2	
Worthing U.S.D	321	67	19	13	14	100	108	Under 5 5 upwards.		, , .	
Littlehampton U.S.D	92	17	12	5	4	31	23	Under 5 5 upwards.	••••		
Arundel U.S.D	45	8	3		2	12	20	Under 5 5 upwards.			
Horsham U.S.D	151	34	8	7	9	44	49	Under 5 5 upwards.			
Portslade-by-Sea U.S.D	90	24	10	5	7	19	25	Under 5 5 upwards.			
Totals	1848	350	146	76	90	530	656	Under 5 5 upwards.		1 5	
	EW CE M. Salah, hageye		The	e sul	ojoine	ed nu	ımbei	rs have also to	be ta	iken	ii
Deaths occurring outside the District among persons belonging thereto		AMERICA - 14-				2	7	Under 5 5 upwards.			
Deaths occurring within the District among persons not belonging thereto	21	2	11	6	1	1		Under 5 5 upwards.		1	

5TRICT, classified according to DISEASES, AGES, and LOCALITIES.

A)R	PRTALITY FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.																	
8	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
a bullis	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhœa and Dysentery.	Rheumatic Fever.	Phthisis.	Bronchitis, Pneumonia, and Pleurisy.	Heart Disease.	Influenza.	Injuries.	All Other Diseases.	Total.
1.42	Ty	Ty	C <sub>0</sub>	Re	Pu	Ch	Br	Me		Dia Dy	Rh	Ph	Brc Pn and	He Dis	Inf	Inj	All	To
								1	4	11			5				18	40
		3										7	8	17	5	6	53	104
													1				2	17
		2				1								1	3	1	12	25
									7	5			11		1		38	63
							(			1	1	23	24	42	6	5	100	204
									1				5			2	18	26
		1										7	12	9	3	2	46	79
									4				6			3	19	33
		3									1	8	7	7	. 1	4	41	74
									4	5			7		2		27	47
		2					1			1	1	17	18	30	7	4	55	138
									4	2			6		1	1	28	42
		4								1		13	14	21	7	4	80	146
									1	4			4		2	1	14	26
										1	Ł	3	13	11	8	6	38	85
									1	16			10			2	56	86
		1					2	• • • • •				24	21	41	11	7	123	235
									2	6			6				13	29
		3						• • • • •		2		5	9	9		2	32	63
		1		-				1		$\frac{1}{2}$		,			1	mantahilin da, assang	6	11
									}			2	1	8	2	1	20	34
			discinsor; sandonn	eronic makadadik asamu				***************************************		19			1			1	20	42
		1								2	1	11	15	20	6	2	49	109
				**************************************					2	1			5		1		24	34
												6	12	5	1	2	30	56
		1						2	29	71		-	67		8	10	283	496
		19		• • • • •			3	• • • • •		8	5	126	154	221	60	46	679	1352
ou	nt i	n jud	lging	of t	he al	oove	recor	ds o	of mo	rtali	by.		arke mpositif ar deposition on domi					
						1			1				PORTING OF EACH PROPERTY OF THE CONTROL		[	wis in 1870 annua.		
	• • • • • •	*****		•••••				•••••									9	9
-		-							)									13
		2		••••			• • • • •		1971 0 0 0 0 0 0 0		* * * * *	* * * * * *	• • • • • • • • • • • • • • • • • • •	• • • • •				8

# (B)—TABLE OF POPULATION, BIRTHS, AND OF NEW CASE

Officer of Health, during the year 1899, in the COMBINE

					2411					
Names of Localities adopted	1	Population at all Ages.		$A \operatorname{ged}$	COMI		NEW CASES OF SIC			
for the purpose of these Statistics; Public Institutions		Esti-	d B	under 5	1	2	3	4	5	
being shown as separate localities.	Last Census	mated tomid-	Registered Births.	or over 5.	Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Enteric or H
(a)	(b)	(c)	(d)	(e)	Sin	Sc	Di	Cre	Ty	— Kn
Steyning West R.S.D	10,810	11,750	274	Under 5 5 upwards.	• • • • • •	14	831	• • • •	• • • • •	1.
Steyning East R.S.D	1,992	2,350	35	Under 5 5 upwards.		8	1			C • 01
Horsham R.S.D	16,798	19,470	409	Under 5 5 upwards.		4 57	7		,	• • •
Petworth R.S.D	9,431	9,340	194	Under 5	• • • • •	1	1			
				5 upwards.		4	7			
Thakeham R.S.D	8,049	8,000	185	Under 5 5 upwards.		2 14	2 13	1		
East Preston R.S.D	8,692	10,000	290	Under 5 5 upwards.		5 24	2 8		• • • • •	1
Midhurst R.S.D	14,236	14,450	326	Under 5 5 upwards.		10 36	1 14			
Westbourne, R.S.D	7,084	6,930	180	Under 5		23	6			
	1			5 upwards.		75	33			1
Worthing U.S.D	16,606	21,600	368	Under 5 5 upwards.	• • • •	6 24	11 19		• • • • •	
Littlehampton U.S.D	4,452	6,000	116	Under 5 5 upwards.		10	$\begin{bmatrix} 2 \\ 5 \end{bmatrix}$			
Arundel U.S.D	2,644	2,640	68	Under 5			1			
				5 upwards.		3	3			
Horsham U.S.D	8,087	9,000	241	Under 5 5 upwards.		$\begin{bmatrix} 2 \\ 7 \end{bmatrix}$	5 22			• • •1
Portslade-by-Sea U.S.D	4,070	5,000	193	Under 5 5 upwards.		8	8			
Totals	112951	126530	2,879	Under 5	••••	61	47	1		
				5 upwards.		285	211			g

I INFECTIOUS SICKNESS, coming to the knowledge of the Medical STRICT; classified according to Diseases, Ages, and Localities.

SS T	IN EACH LOCALITY, THE MEDICAL OFFICER LTH.						Number of such Cases Removed from their Homes in the several Localities for Treatment in Isolation Hospital.												
	8	9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12	13
	EVER			zô				,	તું	sno			EVER		1		**		
	Relapsing.	Puerperal.	Cholera.	Erysipelas.			Small Pox.	Scarlatina.	Diphtheria.	Membranous   Croup.	Typhus.	Enteric or   Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.		
		1		4										•••••					• • • •
								3			••••	1		••••					
•••				5										••••					
• • •		1	-	2								1							•••
	-			4								1							
-	-		-	13		-		1	1	-		3		-	-			-	
••		-		7		-						-						-	
		-		11								-		-		-			• • •
		-	_	15		-	-	17	11	_	-	2	-	-					
	-	-	-	21					-			_		• • • •	-				
				2	-				•										
					_	-								•	-				
		1		i		-		1	• • • •			2		-	-		-		••••
	• • • • •	3		84		•			• • • • •		• • •	10	•						

# STEYNING WEST RURAL DISTRICT.

pp. 1 et seq.

# STEYNING WEST RURAL DISTRICT.

The Steyning Rural Sanitary District was divided into two portions on the passing of the Local Government Act, 1894. Steyning West includes fifteen parishes which are enumerated in the next table, while Steyning East includes the remaining seven parishes. Part of Edburton is now under its own name in the western division portion, while the rest, known as Fulking, is now in the eastern division. The change came into effect from January 1st, 1895, and the following figures have reference only to this new district in the present and in previous years:—

Population	in 1861			. 8,735
"	,, 1871		•	. 10,377
,,	,, 1881	• • •		. 10,904
"	,, 1891		•	. 10,810
Male Popu	ation in 1891			. 5,526
Female	?? ?? <u>1</u> ?	• • (	•	. 5,284
No. of Inh	abited Houses	in 1891 .		. 2,193
" Uni	nhabited Hous	es in 189	1 .	. 204
,, Per	ons to each He	ouse in 1	891 .	. 4.93

The population has remained nearly stationary in most of the parishes for many years, but in Southwick and Kingston several fresh houses have been, and are being, erected.

Southwick became an Urban District on Michaelmas-Day, 1899, but I have given the vital statistics in this part of my report as usual for the sake of uniformity in calculating the rates of births and deaths in this area. In future reports it will appear as a separate district. It is rapidly increasing in size, and it has combined with Portslade in carrying out a sufficient scheme for sewerage and drainage.

The following table gives the usual information as to the incidence of various diseases in each parish in this district.

	·S6	essesiG IIA	908 102 368 88 225 17 23 64 64 686 686 119 129	3,702
	.9sk	esiG treeH	69 722 1132 146 178 188 171 188	322
	'əsi	Besid gand	128 42 10 10 136 128 136 136 137 138 138 138 138 138 138 138 138	208
		Phthisis.	80 72 81 10 10 10 10 10 10 10 10 10 10 10 10 10	340
ole.		Креитатіс Кеуег,		<u> </u>
ifial		Distribus.	10000     1000     00	68
Non-notifiable.		gniqoodW Gough.	4 4 8   9   1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	85.
Z		Measles.	ж - с     с   с   п - с - с	56
		Erysipelas.	P 64 64 1	50
		Puerperal.	_	ဗ
	Fevers.	Continued.	cı	ಸರ
le.	Fev	Enteric,	0001   1000   1000	54
Notifiable.		.sndqVT	4	1-
No	S	Membranou Group,		ನ್
-		Diphtheria.	# c c c     c c c c c c c c c c c c c c	09
		Searlatina.		24
		Small Pox.		
		Parish.	Southwick Kingston Lancing Old Shoreham Sompting Coombes Botolphs Bramber Steyning Upper Beeding Edburton Woodmancote Ashurst Shermanbury	Total

All deaths occurring in Shoreham Workhouse, which is situated outside this district, have been distributed each year to each parish whence the inmate came.

### BIRTHS AND BIRTH-RATE

During the year 1899, the births of 274 children were registered; of these 147 were male, and 127 were female.

Estimating the population in the middle of the year at 11,750, the birth-rate was equal to 23.3 per 1,000 persons living.

In England and Wales the birth-rate during the year was 29.3 per 1,000 persons living, a rate 1.0 per 1,000 below the mean rate in the ten years, 1889-98, and lower than in any other year on record.

The following table shows the births and birth-rate in each locality during two periods:—

uring two periods.						
	Birtl	ı-rate.	Birt	ths.	Birth	rate.
		1893-97.	1898.	1899.	1898.	1899.
Southwick Parish	33.5	32.0	87	110	29.5	36.1
Rest of Rural District	$27 \cdot 1$	25.3	72	73	25.0	$25 \cdot 2$
Steyning Parish	31.1	23.7	31	26	17.7	14.9
Henfield Parish	$28 \cdot 9$	17.6	30	28	14.1	13.0
Rest of Rural District	32.0	22.5	39	37	20.5	19.5
			Makey Miller Publisher Fraker 1814			
Mean	30.5	25.7	259	274	$22 \cdot 3$	$23 \cdot 3$

#### GENERAL MORTALITY.

There were 144 deaths registered in this district in the year 1899, but to this number must be added the deaths of 6 persons in New Shoreham Workhouse, which is outside the district, leaving the corrected figures at 150.

The six Workhouse deaths have been distributed among the several parishes whence each inmate came, viz.:—Southwick 2, Sompting 3, and Steyning 1.

Estimating the population in the middle of the year at 11,750, the death-rate was equal to 12.8 per 1,000 persons living.

In country places throughout England and Wales the rate of mortality in 1899 was equal to 16.3 per 1,000 of population, or 0.5 per 1,000 below the mean rate in the ten years, 1889-98.

		Dea	ths.			Death-rate.					
	1896.	1897.	1898.	1899.	1896.	1897.	1898.	1899.			
Southwick Parish	36	30	43	41	13.1	10.3	14.6	13.4			
Rest of Rural District	18	32	33	35	6.4	11.2	11.5	$12 \cdot 1$			
Steyning Parish	18	24	16	27	10.3	13.8	9.1	15.4			
Henfield Parish	27	27	31	25	13.0	12.9	14.6	11.6			
Rest of Rural District	17	28	20	22	<b>9</b> ·0	14.7	10.5	11.6			
•					***************************************			-			
Total	116	141	143	120	10.3	12.3	12.3	12.8			

In each parish the deaths were thus distributed:—

Southwick			41		Bramber	<b>6</b> 4	 3
Kingston					Steyning		 27
Lancing	0 0		15		Upper Bee	ding	 7
Old Shoreh	am		2		Edburton	• •	 1
Sompting			14		Woodmand	ote	 4
Coombes			none		Henfield		 25
Botolphs			1		Ashurst		 5
_	Sh	erman	bury			2	
			Total	l	150		

## INFANT MORTALITY.

The *infant mortality* is here given as measured by the number of deaths under one year of age to the total number of births in the year:—

	Births.	Deaths under one year.	· 1899. R	atio to 1,000 Bir 1898.	ths. 1888-97.
Southwick Parish	. 110	16	145	161	106
Rest of Rural District.	73	8	110	83	74
Steyning Parish	26	4	154	-	104
Henfield Parish	. 28	2	71	233	85
Rest of Rural District.	. 37	2	54	77	77
				***************************************	
Total	. 274	32	117	116	87

In England and Wales the proportion of deaths under one year of age to registered births was 163 per 1,000 during the past year, the mean proportion in the preceding ten years having been 151.

#### ZYMOTIC MORTALITY.

The deaths from zymotic diseases were 9 in the cases of those which are notifiable, and 16 in the other class where the number of cases cannot be obtained. The rate of mortality was therefore equal to  $2\cdot13$  per 1,000.

					Cases.	Deaths.
	Small Pox			• •	 none	none
	Scarlatina				14	1
	Diphtheria				39	5
	Membranou	as Ci	oup.		 none	none
	(Typhus				 none	none
ý,	Enteric				 12	3
Fevers.	Continued				 none	none
E G	Relapsing				 none	none
7	Puerperal				 1	none
	Cholera				 none	none
	Erysipelas		• •		4	none
	· · ·					
			Total		 63	9

In the other class the deaths were thus recorded:—

Measles		 1
Whooping Cough		 4
Diarrhea and Dyser	ntery	 11
Rheumatic Fever		 none
	Total	 16

The Infectious Diseases (Notification) Act, 1889, came into force in this district on May 1st, 1891.

The Infectious Disease (Prevention) Act, 1890, and the Public Health Acts Amendment Act, 1890, came into force here on September 29th, 1891.

The prevalence in each quarter of each notifiable disease is shown in the following table:—

e						Total			
		1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	1899.	1898.	1897.	1896.
Small Pox				1			2010-00		2
Scarlatina		1	1	11	1	14	11	2	10
Diphtheria		11	14	2	12	39	40	6	8
Membranous Croup			come a desiri	-	ga-rallamentus			1	
Enteric Fever		4	3	4	1	12	8	10	13
Continued Fever	• •		M graphenna.					1	
Puerperal Fever		1				1			-
Erysipelas				4		4	4	7	7
Total									rannang
		17	18	21	14	70	63	27	40

Each of the five deaths from diphtheria occurred in Henfield Parish where this disease lingered on in a few instances from the epidemic of the preceding year. These deaths occurred in families amongst whom other children had been affected some months before. In other respects, the district was very free during the year from any epidemic prevalence of disease.

#### SOUTHWICK SEWERAGE AND DRAINAGE.

During the past year the sewerage outfall works, being carried out by Messrs. Cooke & Co. for the combined districts of Portslade and Southwick, to the designs of Mr. C. O. Blaber, M.I.C.E., have progressed steadily and are now nearing completion.

A brick barrel sewer, 6ft. in diameter, has been constructed, extending for 1,600ft. along the Lower Shoreham Road, from near the Coastguard Station, where it receives the sewage from Portslade and Fishergate, to a penstock chamber at Messrs. Penney's wharf opposite the bottom of Station Road.

This sewer will receive the drainage of all the houses up to this point, including that from the new roads at the top of the Green.

Another and smaller brick barrel sewer, 3ft. in diameter, has been laid, discharging into the same penstock chamber and extending for 700ft. in a westerly direction along the main road in front of Adur Terrace; it is then continued by means of 12in. pipes as far as Victoria Road, where it receives the sewage discharged from all the roads upon the west side of the Green.

The sewage will be retained in these tank sewers during high water by means of the above-mentioned penstock and, when the tide is favourable, the contents will be discharged into the seaby means of a syphon under the eastern arm of Shoreham Harbour consisting of 2ft. 6in. cast iron pipes.

This syphon commences on the north side of the penstock chamber on Messrs. Penney's wharf, then dips under the channel and rises to a valve chamber on the opposite side of the harbour, whence it is carried to a point 1,000ft. beyond low water mark.

The plans for the general sewerage scheme of the parish are now under consideration, and it is hoped to complete the whole of the sewers by the time the outfall is in working order.

#### WATER SUPPLY.

STEYNING.—There is a Water Company working under a Provisional Order for the supply of Steyning, Bramber, and Beeding.

The works are in Beeding Parish adjoining the road to Henfield and about half-a-mile from any buildings.

A large well, sunk 54ft. deep into the chalk, with two adits running north and south, has tapped the flow of water from the hills, and gives a constant supply of good water as the following analysis will show.

The water is pumped to a reservoir on the downs 220ft. above, the sea level, giving a pressure at Steyning sufficient to throw water over the highest house.

There is a good engine house and pump room and engine power sufficient to supply a district three times the size.

Mains have been laid from the works along the main road through Beeding and Bramber to Steyning, and distributing mains throughout all the roads in Steyning.

There seems to be a very good supply of water as the well and adits were dug in the exceptionally dry season of last summer and a steam pump had to be used to keep the water down in the driest weather.

When the quantity of water was found to be sufficient the capital of the Company was enlarged to £15,000 to enable the Company to supply Henfield should that town require the water.

The Company began distribution on the 29th September, and up to the end of the year 88 services have been connected.

A sample of water from this well was analysed by Mr. Cripps in October, 1899, with the following result:—

			C	trams per ganon.
Total Solids				19.00
Chlorine				1.55
Ammonia				0007
Albuminoid Ammonia				<b>.</b> 0028
Nitrogen as Nitrites				absent
Nitrogen as Nitrates		9 0		·288
Oxygen absorbed in five	minutes			·0073
Oxygen absorbed in thr	ee hours			$\cdot 0256$
Lead				absent
Temporary Hardness				11.85 degrees
Permanent Hardness				2.85 degrees
Total Hardness		0 0		14.70 degrees
Microscopic Examination	n	Chalk, a	a little	vegetable matter,
			some	living paramecia

"This water is of excellent quality; I am of opinion that it may safely be used for drinking purposes, although it is desirable that the slight sediment should be removed by efficient filtration; it is probable that this sediment will cease after the water has been pumped for some time. The degree of hardness is lower than is frequently found in water coming from chalk."

Henfield.—The supply of water was less affected this year, although in many cases much inconvenience resulted. There is an excellent supply at Upper Beeding, which now supplies Steyning, and it would be quite practicable to extend this supply to Henfield to the common advantage of all.

#### SYSTEMATIC INSPECTION.

The following is a list of routine work during the year, 1899, as recorded in the books of the Sanitary Inspector, Mr. T. F. Gates:—

AT CITY 1 TO		$\frac{992}{194}$
No. of Nuisances abated by verbal and writt		101
notice		100
Nuisances abated by notice		15
Houses disinfected and cleansed		61
Houses whitewashed		8
Water certificates granted for new houses		51
XX7 . 11		2
New wells		2
37 4 4 5 5 3 (0.3)		7
Samples of water analysed		2
0 1 1 1 1		<b>2</b>
		2
Unwholesome food seized	• •	none

#### BY-LAWS.

The By-Laws in force in this district are the same as those mentioned in my 24th Annual Report for 1897.

### SCAVENGING AND CLEANSING.

At Southwick and Steyning contracts are made each year for the removal of ashes and house refuse once a fortnight.

# COWSHEDS AND DAIRIES.

There are 46 Cowsheds and Dairies, which are frequently inspected, limewashed when necessary, and well kept.

At Salt Lake Dairy, Lancing, one cow died of anthrax on September 15th. This case was dealt with by the West Sussex Police.

#### BAKEHOUSES

There are 23 Bakehouses which are inspected from time to time and found in a satisfactory condition.

#### SLAUGHTER HOUSES.

There are 9 slaughter houses which are inspected at various times and kept in a clean condition.

#### MARGARINE ACT.

Very little is sold, and at places where it is sold the clauses of the Act have been complied with.

## SEWERAGE AND DRAINAGE

STEYNING.—The main sewer and drain have been regularly flushed and the outfall tank and ditches cleared of various obstructions.

About 12 feet of the main sewer in High Street, near College Hill—which was probably crushed by the steam roller—have been repaired with new 9-inch drain pipes.

Henfield.—The outfall tank and drain on the Common have been emptied and cleansed; 2 cesspools in Wantly Field and 1 in Martyn Croft have been emptied.

#### COMMON LODGING HOUSES

There is no common lodging house in this district.

## PROCEEDINGS BEFORE THE MAGISTRATES.

No proceedings were taken before the Magistrates during the year.

# INQUESTS.

Inquests were held in twelve cases:—Female, 73 years, accidental fall, fracture of leg followed by gangrene; male, 54 years, suicide by hanging; female, 73 years, syncope from heart disease; male, 56 years, suicide by hanging; female, 52 years, natural causes, heart disease; female, 65 years, heart failure; male, 75 years, dislocation of neck by a fall; male, 68 years, aneurism of aorta; female, 53 years, suicide by hanging; male, 14 years, drowned; male, 60 years, bronchitis, accelerated by exposure; female, 31 years, disease of liver and stomach.

There were no deaths returned as "not certified" during the year.

# STEYNING WEST RURAL DISTRICT.

Table 1.—Showing the Deaths at various groups of ages in the five years, 1895-99.

Year.	At all ages.	Under 1 Year.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 and upwards.
1895	144	29	6	3	12	32	62
1896	116	18	8	5	6	39	40
1897	141	25	9	2	6	47	52
1898	143	30	10	7	9	42	45
1899	150	32	S	5	8	40	57

Table 2.—Showing the Deaths from various causes in the twenty years, 1876-95, and in 1896-99.

1					Croup.		F	ever	s.					Cough.		Fever.		
Perio	d.	Small Pox.	Scarlatina.	Diphtheria.	Membranous (	Typhus.	Enteric.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cou	Diarrhea.	Rheumatic Fe	Influenza.	Total.
1876-8	0	-	6	8	_	2	6	3		<u>5</u>	_	5	6	16	23		<i></i>	80
1881-8	5	. —	16	27	_	3	17	2	_	1		3	5	21	17	1		113
1886-9	0	-	-	10		2	12		-	_	No Principal de	5	4	15	18	1	6	73
1891-9	5	_	1	9	2		10	-	_	_	_	١4	6	14	9	1	34	90
1896	• • •		-			_	2	_	_	_	—	1	1	11	1	_		16
1897	• • •		-	_	1		2	_		-		_	_	2	3	1	1	10
1898	• • •	Ì —	_	1	-	_	2		-	_		2	3	2	7	1	3	21
1899	• • •	-	1	5	_	_	3	_	_		_		1	4	11		5	30
Tota	ıl	-	24	60	3	7	54	5	_	6	<u> </u>	20	26	85	89	5	49	436

# STEYNING WEST RURAL DISTRICT.

Table 3.—Showing the Death-rate per 100,000 persons living from all causes, and from various causes, in different localities, during the twenty years, 1876-95, and the Death-rate in 1896-99.

LOCALITY.	'All Diseases.	Notifiable.	Non-notifiable.	Phthisis.	Lung Disease.	Heart Disease.
Southwick Parish	1,479	84	101	135	213	107
Rest of R.D	1,320	75	77	112	148	116
Steyning Parish	1,614	62	77	171	284	110
Henfield Parish	1,477	79	38	131	197	170
Rest of R.D	1,437	60	58	156	210	126
Mean	1,460	74	73	140	205	125
PERIOD.						
1876-80	1,565	66	84	204	223	107
1881-85	1,457	128	82	128	186	130
1886-90	1,448	54	70	128	220	124
1891-95	1,370	47	55	100	193	138
1896	1,026	26	115	88	168	124
1897	1,226	26	52	130	87	78
1898	1,233	43	112	52	190	103
1899	1,276	77	136	60	111	145

# (A)—Table of DEATHS during the Year 1899, in the STEYNING W

	Мо	ORTAI AT			ALL D AG		ES			
Names of Localities adopted for the purpose of these	ages.	year.	ider 5.	under 5.	under	ınder	-dn		1	2
Statistics; Public Institutions being shown as separate localities.	At all ag	Under 1	l and under	5 and u 15.	15 and 1 25.	25 and under 65.	65 and wards.		ll Pox.	Scarlatina.
$(\alpha)$	(b)	(c)	(d)	(e)	( <i>f</i> )	(g)	(h)	(i)	Small	Scar
Southwick Parish	39	15	1		2	12	9	Under 5 5 upwards.		
Rest of Rural Sub-District	32	8	1	1	1	10	11	Under 5 5 upwards.		••••
Steyning Parish	26	4	2	1	1	8	10	Under 5 5 upwards.	••••	1
Henfield Parish	25	2	2	3	1	6	11	Under 5 5 upwards.		
Rest of Rural Sub-District	22	3	2		3	3	11	Under 5 5 upwards.		
				1				Under 5		
								5 upwards.		
				Windows				Under 5		
								5 upwards.		
								Under 5		
				; 				5 upwards.		
				The second secon				Under 5		- * * * * *
								5 upwards.		
								Under 5 5 upwards.	• • • •	
Totals	144	32	8	5	8	39	52	Under 5 5 upwards.		1
			The	e sul	bjoin	ed ni	ımbe	rs have also to	be to	aker
Deaths occurring outside the District among persons belonging thereto	6					1	5	Under 5 5 upwards.		
Deaths occurring within the District among persons not belonging thereto								Under 5 5 upwards.		••••

# AL DISTRICT, classified according to Diseases, Ages, and Localities.

				, OI								, LLOIDO,	205 - 11 - 42		. 15		
TAL	TY 1	FROM	SUB	UN	ED CA	AUSES FIVE	YE YE	STING ARS (	UISH OF A	ING GE.	DEAT	THS OF	Сні	LDRE	N		
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhoea and Dysentery.	Rheumatic Fever.	Phthisis.	Bronchitis, Pneumonia, and Pleurisy.	Heart Disease.	Influenza.	Injuries.	All Other Diseases.	Total
							1		5			3	9			7	16
	2								1	Transfer of the second	3	1		3		14	23
								1	4							4	9
	1										2	2	5	2	3	8	23
								3	1			1				1	6
											1		4	-	3	11	20
• • • • •						• • • • •			1							2	4
												3	4			10	21
• • • • •			• • • • • •									11	•••••			4	5
											]	2	4		•	10	
• • • • •	••••	•															
• • • •		••••		••••	• • • • •		• • • • • •	• • • • •	••••				••••		••••	•	
••••																	
••••	3	• • • • •	-	• • • • •	• • • • •	• • • •	1	4	11		7	5	17	5	6	18 53	- <del>40</del> 104
nt ir	n jud	ging	of the	he al	ove	recor	ds o	f mo	rtali	ty.							
• • • •		• • • • •	• • • • •	• • • • •												6	6
-								,									

(B)—TABLE OF POPULATION, BIRTHS, AND OF NEW CASS
Officer of Health, during the year 1899, in the STEYNING WEE

	,									-
Names of Localities adopted		LATION AGES.	rths.	$\mathbf{Aged}$	COMI				OF S	
for the purpose of these Statistics; Public Institutions		Esti-	i Bi	under 5	1	2	3	4	5	
being shown as separate localities.  (a)	Last Census	mated to middle of 1899.	Registered Births.	or cver 5.	Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	Fevil	Whitemic or E
				Under 5			3			-
Southwick Parish	2,564	3,050	110	5 upwards.		4	3		•••••	
Rest of Rural Sub-District	2,654	2,910	73	Under 5			$\frac{1}{2}$			
1				5 upwards.		1	4			
Steyning Parish	1,705	1,750	26	Under 5						
	2,,00			5 upwards.		5				
Henfield Parish	2,006	2,150	28	Under 5			3			
Licinicite I di Isii	2,000	2,100	20 .	5 upwards.			23			
Rest of Rural Sub-District	1 001	1,900	37	Under 5						
Tiest of Italian Sup-District	1,001	1,000	97	5 upwards.		4	1 *			
				Under 5						
6				5 upwards.						
				Under 5						
4				5 upwards.						
				Under 5						
				5 upwards.						
				Under 5						
				5 upwards.						
				Under 5						
				5 upwards.						
				Under 5						
				5 upwards.						
Tr	10.010	11.50	054	Under 5			8			4
Totals	10,810	11,750	274	5 upwards.		14	31			7

INFECTIOUS SICKNESS, coming to the knowledge of the Medical ral District; classified according to Diseases, Ages, and Localities

	IN E HE I	MEDI	CAL	Offi	CER			Ном	UMBE ES IN	THE	SEV: IN IS	ERAL OL <b>AT</b> :	Loc	ALITI Hosp	ES FO	OR T	REAT	MENT	~
	8	9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12	13
FF	EVERS	S								sn		F	EVER						
	Relapsing.	Puerperal.	Cholera.	Erysipelas.			Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.		
-								• • • • •							• • • • •				
-																			
. ,				1		•••••													
• • •		1		3						•									• • • •
						• • • •				•	• • • •		• • • •					• • • • •	
• • •																			
••			-					, ( • • • •	-	•	• • •					1	••••		
								· · · · · · · · · · · · · · · · · · ·	-										
						-			•										
				-									-						

# STEYNING EAST RURAL DISTRICT.

pp. 17 et seq.

# STEYNING EAST RURAL DISTRICT.

The Steyning Rural Sanitary District was divided into two portions on the passing of the Local Government Act, 1894. Steyning West includes fifteen parishes which are enumerated on page 2, while Steyning East included the remaining seven parishes. Part of Edburton is now under its own name in the western division portion, while the rest, known as Fulking, is now in the eastern division. This change came into effect from January 1st, 1895, and the district remained the same until March 31st, 1898, when the urban sanitary district of Portslade-by-Sea was formed by taking out the populous part, and leaving a large rural area on the downs with a small population, estimated at 150, in the rural portion of the parish of Portslade, which portion is now therefore a rural parish. The following figures have reference only to this new district in the present and in previous years:—

Population i	in 1861 .				• •	1,139
"	,, 1871 .					1,312
,,	,, 1881	• •	* 6	• •	• •	1,564
22	,, 1891 .	•		• •		1,972
Male Popula	ation in	1891	• •			920
Female	"	11	• •	. •	• •	1,052
No. of Inhal	bited Ho	ouses ir	1891	• •		365
" Unin	habited	House	s in 18	91		16
" Perso	ons to ea	ch Ho	use in	1891		5.40

Patcham is the only parish in this district with a large population.

			P	opulation in 1891.
West Preston	B 0			159
Patcham			• •	1,064
West Blatchington	• •		• •	95
Hangleton	. •			49
Portslade (Rura!)			•	150
Fulking				150
Poynings	• •	• •	• •	305

The following table gives the usual information as to the incidence of various diseases in each parish in this district,

18

	.8	essesiG IIA		40	255	19	20	-	49	83	451
	°əsv	esiU treaH		_	32	67	<del></del>		9	ಌ	47
	<b>'</b> ƏS'	səsiU zan.I		,	34	<b>२०</b>	だひ		9	14	63
		Phthisis.	,		18	-	ಾ	ļ	टा	11	35
											/
ole.		Eheumatic Fever.		-	<b>61</b>						cī .
ifial		Diarrhæa.		ा	14		<del></del>				$\frac{\infty}{}$
Non-notifiable.		SniqoohW Gough.		_	4				67		7
Z		Measles.		grandly .	2				ଚୀ	<b>C</b> 1	1
	_	Erysipelas.				process.	mandilla a min	1			ा
		Puerperal.					1			-	
	Fevers.	Continued.									
le.	Fev	Enteric,			<del></del>	1				2	ನಾ
Notifiable.	)	.sundVT									1
No	S	Membranou Group.					1				
		Diphtheria.		4	$\overline{}$	1		1	i	<del>,</del> i	ာ
		Scarlatina.			67			-			23
		Small Pox.				-					
		Parish.		West Preston	Patcham	West Blatchington	Hangleton	Portslade Rural (1898)	Fulking	Poynings	Total

Table showing the Deaths from various causes in each Parish in the twenty-four-years, 1876-99.

All deaths occurring in Shoreham Workhouse, which is situated outside this district, have been distributed each year to each parish whence the inmate came.

#### BIRTHS AND BIRTH-RATE

During the year 1899, the births of 35 children were registered; of these 18 were male, and 17 were female.

Estimating the population in the middle of the year at 2,350, the birth-rate was equal to 14.9 per 1,000 persons living.

In England and Wales the birth-rate during the year was 29·3 per 1,000 persons living, a rate 1·0 per 1,000 below the mean rate in the ten years, 1889-98, and lower than in any other year on record.

The following table shows the births and birth-rate in each locality during the last three years:—

		1897.	Births. 1898.	1899.	1897	Birth-rate. 1898.	1899.
Patcham Parish		20	21	16	16.7	17.5	13.3
Portslade Parish		2	3	6	13.4	20.0	20.0
Rest of District		23	20	13	25.0	25.0	1 <b>5</b> ·3
	·						
Mean		42	44	35	20.0	20.5	14.9

### GENERAL MORTALITY.

There were 42 deaths registered in this district in the year 1899, but from this number must be deducted the 21 deaths in Hangleton Hospital of persons not belonging to the district, leaving the corrected figures at 21.

Estimating the population in the middle of the year at 2,350, the death-rate was equal to 8.9 per 1,000 persons living.

In country places throughout England and Wales the rate of mortality in 1899 was equal to 16.3 per 1,000 of population, or 0.5 per 1,000 below the mean rate in the ten years, 1889-98.

The following table shows the deaths and death-rate in each locality during the past four years:—

	Deaths.				Death-rate.
	<b>189</b> 6.	1897.	1898.	1899.	<b>18</b> 96. <b>18</b> 97. <b>18</b> 98. <b>18</b> 99.
Patcham Parish	6	17	10	10	5.0 14.2 8.3 8.3
Rest of Sub District	6	.7	6	11	7.5 8.7 6.3 9.5
				www	Growth of the Miller of Mi
Total	12	24	16	21	6.2 12.0 7.4 8.9

In each parish the deaths were thus distributed:—

West Preston		3	 Hang	gleton	 	none
Patcham		10	 Ports	slade	 	none
West Blatchin	gton	2	 Poyn	ings	 	3
· ·	Fulking					
	O		21			

#### INFANT MORTALITY.

The *infant mortality* is here given as measured by the number of deaths under one year of age to the total number of births in the year:—

		Births.	Deaths unde one year.	r Ratio to 1,000 Births.	Ratio 1898.
Patcham Parish		16	1	62	48
Portslade Parish	• •	6	-		333
Rest of District		13		9-90-9-00-0	100
		g-Millerman	-		
Total		35	1	28	91

In England and Wales the proportion of deaths under one year of age to registered births was 163 per 1,000 during the past year, the mean proportion in the preceding ten years having been 151.

#### ZYMOTIC MORTALITY.

There was one death from zymotic disease in the case of those which are notifiable, and none in the other class where the number of cases cannot be obtained. The rate of mortality was therefore equal to 0.42 per 1,000.

32	por 1,000.					Cases.	Deaths.
	Small Pox	• •		• •		none	none
	Scarlatina			• •	• .	8	none
	Diphtheria		• •	• •	• •	$^{\cdot}$ 2	1
	Membranou	as Cr	oup			none	none
	(Typhus	• •			• •	none	none
<u> </u>	Enteric		• •			2	none
Fevers.	{ Continued	• •		• •		none	none
Fe	Relapsing		• •			none	none
	Puerperal		• •			none	none
	Cholera		• •	• •		none	none
	Erysipelas		• •		• •	none	none
			Total			12	1

In the other class no deaths were recorded:—

					Deaths.
Measles	• •	• •			none
Whooping			• •	• •	none
Diarrhœa a	•	entery			none
Rheumatic	Fever	• • •	• •	• •	none
		T	otal		none

The Infectious Disease (Notification) Act, 1889, came into force in this district on May 1st, 1891.

The Infectious Disease (Prevention) Act, 1890, and the Public Health Acts Amendment Act, 1890, came into force here on September 29th, 1891.

The prevalence in 1897-99 and in each quarter of 1899 of each notifiable disease is shown in the following table:—

		1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Total 1899.	1898.	1897.
Small Pox			www.committee		Self-brooks			
Scarlatina		-		5	3	8	13	1
Diphtheria	,	1			1	<b>2</b>	1	-
Membranous Crou	ар		-					manenim
Enteric Fever		<b>2</b>	SUMSUMMO			2		
Continued Fever		_				oper to committee		
Puerperal Fever								
Erysipelas							1	1
Total		Sales and the sa						
		3		5	4	12	15	2

#### INFECTIOUS DISEASE.

All cases of Infectious Disease have been enquired into, and the necessary precautions carried out with regularity and efficiency by the Sanitary Inspector.

Disinfectants are supplied free of charge.

The disinfection of each house is afterwards carried out, and the notices served where necessary for cleansing and purifying of the premises.

#### HOSPITAL ACCOMMODATION.

The Hove Town Council (by agreement) provides 1 bed at the Hangleton Hospital for the district on the payment of a retaining fee.

#### WATER SUPPLY.

Patcham, Portslade, and Preston are well supplied with good water from the Brighton Corporation Waterworks.

#### DRAINAGE,

There is no system of Drainage at present in any of the seven parishes.

# COWSHEDS AND DAIRIES.

Regulations under the Contagious Diseases (Animals) Act, 1886, and the Dairies, Cowsheds, and Milk Shops Order of 1885, were adopted on April 26th, 1887, and came into force on June 1st, 1887.

These premises are visited as regularly as possible to see that the provisions of the Acts are carried out.

# PROCEEDINGS BEFORE THE MAGISTRATES.

No proceedings were taken before the Magistrates during the year.

# INQUESTS.

A inquest was held in one case:—Male, 33 years, suicide on the railway.

There were no deaths returned as "not certified" during the year.

### STEYNING EAST RURAL DISTRICT.

Table 1.—Showing the Deaths at various groups of ages in the five years, 1895-99.

Year.	At all ages.	Under 1 Year.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 and upwards.
1895	20	4	4	Destinação	2	5	5
1896	12	1			1	5	5
1897	24	2	der mellige	1		7	14
1898	16	4 .			2	5	5
1899	21	1	3	3	1	6	7

## STEYNING EAST RURAL DISTRICT.

Table 2.—Showing the Deaths from various causes in the twenty years, 1876-95, and in 1896-99.

				Croup.		F	ever	s.					Cough.		Fever.		
Period.	Small Pox.	Scarlatina.	Diphtheria.	Membranous C	Typhus.	Enteric.	· Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cou	Diarrhea.	Rheumatic Fe	Influenza.	Total.
1876-80		_	_	_	_			_	1	_	1	1	1	5		_	9
1881-85	1	1	1	_		3	_		_		_	3	_	6			15
1886-90	_				_		_		_		1		3	5	2		11
1891-95	_	1	4					_	_			3	3	2		6	19
1896	_			_	_		_		—			_	_		_		AND PROCESSORY
1897			_					_		-		_	_	_			
1898	-			_	_	_			_	_		_		_		_	
1899		_	1										_			3	4
Total	1	2	6	_	_	3			1	_	2	7	7	18	2	9	58

### STEYNING EAST RURAL DISTRICT.

Table 3.—Showing the Death-rate per 100,000 persons living from all causes, and from various causes, in different localities, during the twenty years, 1876-95, and the Death-rate in 1896-99.

LOCALITY.	All Diseases.	Notifiable.	Non-notifiable.	Phthisis.	Lung Disease.	Heart Disease.
Patcham Parish	1,092	41	110	93	155	145
Rest of District	1,153	41	83	118	173	90
Mean	1,128	41	94	108	166	112
PERIOD.				·		
1876-80	1,027	27	95	135	135,	
1881-85	1,200	75	112	175	125	
1886-90	1,200	11	115	80	229	
1891-95	1,010	53	84	42	158	
1896	600				150	
1897	1,200				100	100
1898	744				93	140
1899	893	42	<del></del>		42	42

(A)—Table of DEATHS during the Year 1899, in the STEYNING EAST

(A)—Table of DEATI	15	aurn	ng t	he	Y ear	r 18	99, 1	n the SIEIF	(11)	x E	Ai
	Мо			FROM							
Names of Localities adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	At all ages.	Under 1 year.	l and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and up- wards.	:	Small Pox.	Scarlatina.	
(a)	(b)	(c)	(d)	(e)	( <i>f</i> )	(g)	(h)	(i)	Sn	Sc	
Portslade Rural Parish						*********		Under 5 5 upwards.			derengen automotive of the
Patcham Parish	10	1	2	1	1	3	2	Under 5 5 upwards.			The state of the s
Rest of District	11		1	$\begin{vmatrix} \\ 2 \end{vmatrix}$		3	5	Under 5 5 upwards.			
Hangleton Hospital	21	2	11	6	1	1		Under 5 5 upwards.		1	]
					\ <u></u>			Under 5			
								5 upwards.			-
					1			Under 5 5 upwards.			
						-		Under 5			
								5 upwards.			
•								Under 5			
						1		5 upwards.			
						-		Under 5			
								5 upwards.			
								Under 5			
								5 upwards.			
Totals	42	3	14	9	2	7	7	Under 5 5 npwards.		}	]
			Th	e su	bjoin	ed m	umbe	rs have also to	be t	aken	ir
Deaths occurring outside the District among persons belonging thereto						1		Under 5 5 upwards.			
Deaths occurring within the District among persons not belonging thereto	21	2	11	6	1	1		Under 5 5 upwards.		1	]
							OF THE CHINADE SHOW SHEET		}	1	

RAL DISTRICT, classified according to DISEASES, AGES, and LOCALITIES.

RTALITY FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.																	
UNDER FIVE YEARS OF AGE.																	
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		EVER							nd			b,					
hus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	era.	Erysipelas.	sles.	Whooping Cough.	Diarrhœa and Dysentery.	Rheumatic Fever.	Phthisis.	Bronchitis, Pneumonia, and Pleurisy.	Heart Disease.	Influenza.	Injuries.	All Other Diseases.	A.L.
Typhus.	Ente	Cont	Rela	Puel	Cholera.	Erys	Measles.	Whoopi Cough.	Diar Dyse	Khe Feve	Phti	Bron Pner	Heart Disease	Influ	Inju	All Dise	Toral.
	* * . * *						• • • •										
												l				1	3
												,		1	1	5	7
																1	1
													1	. 2		7	10
																	13
	2																8
																• • • • •	
													• • • • •				
								,								•••	
	-																
				• • • • •									•••••				
								-									
													• • • . • •				
															• • • • •		
											V-1004 11	1				$-\frac{1}{2}$	 17
	2		• • • • •											3	1	$\begin{bmatrix} \dots^2 \\ 12 \end{bmatrix}$	25
int i		lging	of tl	ne al	oove	recor	ds c	of mo	rtalit	bv.	, * 10 s v j blit.		v soit , with the	n	. 10, 11-14		
- Constant	J	0 0		republication is	STATE OF THE STATE					J						- Table	
• • • • • •				••••					• • • • •	,	••••			• • • • •	•••••		
					1												13
	2							1							• • • • •		8
		T		~~		International Control William								: 3/4/10 A 7 10 F		TO MINISTER ACTION CONTRACTOR	

(B)—TABLE OF POPULATION, BIRTHS, AND OF NEW CASE

Officer of Health, during the year 1899, in the STEYNING EAS

Names of Localities adopted		LATION L AGES.	rths.		COMI			Cases le kn		
for the purpose of these Statistics; Public Institutions		17.4	l Bi	Aged under 5	1	2	3	4	5	
being shown as separate localities.	Last Census	Esti- mated tomid- dle of 1899.	Registered Births.	or ever 5.	Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	FEV snyddL	Enteric or B
(a)	(b)	<b>(</b> c)	(d)	(e)	Sm	Sca	Dif	Me	Ty	En
Portslade Rural Parish	150	250	6	Under 5 5 upwards.					• • • • •	
				Under 5			1			-
Patcham Parish	1,064	1,200	16	5 upwards.		4		- • • • • •	• • • • •	
Rest of Rural District	758	850	13	Under 5		9				
				5 upwards.		3				
Hangleton Hospital	20	50		Under 5 5 upwards.		1	1			
				Under 5						
				5 upwards.						
				Under 5				•		
•				5 upwards.						
				Under 5		,		1 • • • • •		
				5 upwards.						
				Under 5						
				5 upwards.						
				Under 5						. 44
				5 upwards.						
				Under 5						
				5 upwards.						_
				Under 5						
				5 upwards.						
Totals	1,992	2,350	35	Under 5			11			
				5 upwards.		8	1			

INFECTIOUS SICKNESS, coming to the knowledge of the Medical ral District; classified according to Diseases, Ages, and Localities

	1							uta in 24 paint in a cont	
SS IN EACH LOCALITY, THE MEDICAL OFFICER EALTH.			OF SUCH	ERAL L		ES FO	R TRI	EATMEN	T
8 9 10 11 12 13	1   2	3	4   5	6	7   8	9	10	11   12	13
FEVERS.			2	FEV	ERS.				
so les	ox.	ria.				72		S S S S S S S S S S S S S S S S S S S	
Relapsing. Puerperal. Cholera. Erysipelas.	Small Pox.	Diphtheria.	Croup  Typhus.	Enteric or Typhoid.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	
			H			• • • • •			
	1							••••	
	2		1					• • • • • • • • • • • • • • • • • • • •	
						• • • • • • •			
				•					
			• • • • • • •						
	3		1			j		,	

pp. 31 et seq.

## HORSHAM

## RURAL DISTRICT COUNCIL.

The population in this district was 13,400 at the census of 1841 and 14,018 in 1851; partly owing to changes in the area, it rose to 17,876 in 1861, and to 19,935 in 1871, and then by steady increases to 22,300 in 1881, and to 24,885 in 1891.

The above figures, however, include the urban district of Hersham, which was formed in 1875, and which had a population of 6,874 in 1881 and 8,087 in 1891; Crawley was added in 1880. The parish of Cowfold was added to this district on the passing of the Local Government Act, 1894; the figures of this parish relate only to 1895-98.

The following figures relate only to the late rural sanitary area:--

Area in Statute Acres	1861.	1871. 68,798	1881. 69,706	18 <b>9</b> 1. 71,277
Number of Inhabited Houses	2,375	2,713	3,013	3,410
" Uninhabited "	<b>5</b> 6	135	177	232
Population	13,022	13,710	15,426	16,798
Males	6,872	7,097	7,915	8,585
Females	6,150	6,613	7,511	8,213
Persons to a House	5.48	5.05	5.12	4.92

The population has increased considerably in Ifield and in Horsham North Parishes, while it has changed but slowly in the rest of the district.

The following table gives the usual information as to the incidence of various diseases in each parish in this district.

Table showing the Deaths from various causes in each Parish in the twenty-four years, 1876-99.

	·s	easasiG IIA	0	$\infty$	1	<del>_</del>	0	$\infty$	0	$\infty$	165	10	6	9	-		46	5428	
	'əsy	esiG treeH	47	28	32	19	99	30	9	102	20	34	ಚಾ	10	46	22		537	
	* <del>0</del> S	səsiU gunJ				37					56						6	930	
		Phthisis.	38	30 30	27		73	30	29	58	16	29	53	16	.40	73	4	206	-
e.		Евечег, Теуег,				-	¢1	-	-	4	_	4		-		 		14	-
tifiab		.sædrisiC	ಬ	4	က	4	21	9		<u></u> 6	ಣ	1-	က	4	ಣ	10		83	
Non-notifiable.		gniqoodW .dgnoO.	6	10	ಣ	က		13	,—1	13	<b>67</b>	10	4	4	1-	133		104	-
N (		.səlasəM	9	67	4	9	0	ಣ	က	10		_	<del></del>		9	ಣ		61	
	,	Erysipelas.			and the second		_	1			,		3		CT	ı —	1	12	
		Puerperal.		<del> </del> (	,	<del>,</del>	67			1		1				,	1	8	
	ers.	Continued.	2		1	67	67			,		}	<del>,</del> i	1			-	$\infty$	
le.	Fevers.	Enteric,	4	က	,—-		1	-		1		1		· -	+ 🗸	4 4	1	25	
Notifiable.	)	Typhus.		,				1					}	7	1			22	
No	S	Membranou Group.		Ì	1		-			,									-
		Diphtheria.		1	್ ೯೯	1	· 00	ے د	o 67	0.6		70	o oc	0	1 00	4	H ,	98	
		Scarlatina.	7.0	) ,—	+ ,	16	। কর		Ì	70	· —	۱			د	1		25	
		Small Pox.				,		4		_	1	C	1		6	1		7	
		Parish.	Woot Guinetood	Chiplor	Ninthingt	Housham (South)	_	-	Lower Deeding	Crawley (1000)	Dugge	M.Complem	Warmlam	Ttobin of old	D. Jamiel	Dilling and branch	Cowfold (1895-98)	Total	

POPULATION.—It is difficult to give precisely the population of this large area at the present time, nor can it be known with accuracy until the Census has been taken in 1901.

Ifield has increased very much, and also the district in North Horsham round Star Road and Roffey; there are also many fresh houses at Billingshurst.

In making an estimate for this year I have been chiefly guided by taking the number of new houses for which water certificates have been granted since April, 1891.

In 1899, about one hundred certificates were given, a number which has never been reached before.

All deaths occurring in Horsham Workhouse, which is situated inside this district, have been distributed each year to each parish whence the inmate came.

#### BIRTHS AND BIRTH-RATE.

During the year 1899, the births of 409 children were registered; of these 203 were male, and 206 were female.

Estimating the population in the middle of the year at 19,470, the birth-rate was equal to 21.0 per 1,000 persons living.

The births and birth-rate during the past ten years were thus registered:—

Year.	Births.	В	irth-rate.		Year.		Births.		Birth-rate.
1890	 420		$25 \cdot 2$	1	189 <b>5</b>	• •	432		23.3
1891	 467		27.8		1896		423		22.5
1892	 399		$23 \cdot 4$		1897		410	, .	21.5
1893	 394		22.8		1898		444		$23 \cdot 1$
1894	 416		23.9	ĺ	1899		409		21.0

The mean number of births is 421, and the mean birth-rate is 23.5, per 1,000 of population.

In England and Wales the birth-rate during the year was 29.3 per 1,000 persons living, a rate 1.0 per 1,000 below the mean rate in the ten years, 1889-98, and lower than in any other year on record.

The following table shows the births and birth-rate in each locality during three periods;—

	Birth	s-rate.	Bir	ths.	Birth	-rate.
	1877-84.	1983-97.	1898.	1899,	1898.	1899.
South Sub-District	31.9	24.0	85	70	20.0	16.5
Ifield Parish	31.7	20.9	78	64	$24 \cdot 2$	19.4
Rest of North S.D	91.4	$24 \cdot 1$	143	150	$22 \cdot 2$	22.7
West Sub-District	$32 \cdot 2$	21.6	120	109	$27 \cdot 3$	24.8
Cowfold Parish			18	16	19.6	17.4
Mean	31.9	22.8	444	409	23.1	21.0

#### GENERAL MORTALITY.

There were 267 deaths registered in this district during the year 1899, but to this number must be added the death of 1 person in Horsham Cottage Hospital, and from this number must be deducted the deaths of 10 persons in Horsham Workhouse, who came from the Horsham Urban Sanitary District, thus leaving the corrected figures at 258. The remaining workhouse deaths were distributed among the several parishes whence each inmate came, viz., Shipley 1, Nuthurst 2, Horsham 1, Ifield 3, Rusper 2, Warnham 2, Slinfold 3, Billingshurst 2, and Cowfold 1.

Estimating the population in the middle of the year at 19,470, the death-rate was equal to 13.2 per 1,000 persons living.

In country places throughout England and Wales the rate of mortality in 1899 was equal to 16.3 per 1,000 of population, or 0.5 per 1,000 below the mean rate in the ten years, 1889-98.

The variations in the death-rate during the past ten years in this district are here given:—

Year.		Deaths.	D	eath-rate	٠.	Year.		Deaths.	Death-rate.
1890		210		12.6		1895	. ,	267	 14 4
1891		240		14.2		1896		214	 11.4
1892	c	289	• •,	16.9		1897		232	 12.2
1893		235		13.6		1898		248	 12.8
1894		204		11.7		1899		258	 13.2

Thus the mean annual number of deaths is 240, and the mean annual death-rate is 13·3 per 1,000 of population. During the same period there were 4,214 births, so that the natural increase of population by excess of births over deaths was 1811.

In each locality the deaths and death-rate are here shown for the past four years:—

one past rour years.										
•			ths.			Death-rate.				
	1896.	1897.	1898.	1899.	1896.	1897.		1899.		
South Sub-District	41	51	55	54	9.7	12.1	12.9	127		
Ifield Parish	40	46	31	41	13.1	14.5	9.6	12.4		
Rest of North S.D	65	68	98	91	10.4	10.7	15.2	13.8		
West Sub-District				61	13.6	13.5	12.0	13 9		
Cowfold Parish	9	8	11	11	10.0	8.7	11.9	11.9		
	-									
Total	214	232	248	258	11.4	12.2	12.8	13.9		

In each parish the deaths were thus distributed:—

West Grinstead		19		Ifield		41
Shipley		9		Rusper	• •	9
Nuthurst		15		Warnham		15
Horsham (South)		11		Slinfold	• •	12
Horsham (North)		38		Itchingfield	• •	7
Lower Beeding	• •	20		Rudgwick	• •	9
Crawley						33
Cov	vfold	• •	•	11		
	7	Cotal		258		

#### INFANT MORTALITY.

The *infant mortality* is here given as measured by the number of deaths under one year of age to the total number of births in the year:—

	Births.	Deaths under one year.	Ratio to 1,000 Births.	Ratio 1898.
South Sub-District	70	6	86	94
Ifield Parish	64	6	94	51
Rest of North Sub-District	150	13	<b>8</b> 1	105
West Sub-District	109	12	110	83
Cowfold Parish	16	2	. 125	<b>55</b>
		*********	-	-
Total	409	39	95	86

In England and Wales the proportion of deaths under one year of age to registered births was 163 per 1,000 during the past year, the mean proportion in the preceding ten years having been 151.

### ZYMOTIC MORTALITY.

The deaths from zymotic diseases were 3 in number in the case of those which are notifiable, and 15 in the other class where the number of cases cannot be obtained. The rate of mortality was therefore equal to 0.92 per 1,000.

						Cases.	Deaths.
	Small Pox					none	none
	Scarlatina				• .	61	none
	Diphtheria					54	3
	Membranou	as Cr	oup			none	none
	(Typhus					none	none
rs.	Enteric			• •		3	none
Fevers.	{ Continued					none	none
Fe	Relapsing					none	none
	Puerperal					none	none
	Cholera					none	none
	Erysipelas					5	none
			Total			123	3

In the other class the deaths were thus recorded:—

		,	Deaths.
Measles			none
Whooping Cough .			7
Diarrhea and Dyser	itery		6
Rheumatic Fever .			2
	Total		15

The prevalence in each quarter of 1899 and in 1897-98 of each notifiable disease is shown in the following table:—

		1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Total 1899.	1898.	1897.
Small Pox		_						
Scarlatina		3	19	18	21	61	27	24
Diphtheria		9	12	10	23	54	18	34
Membranous Cro	oup							
Enteric Fever				3		3	4	17
Continued Fever	• •		d pastronia respersa		tipe constant	ma va 8******		1
Puerperal Fever			conditionals*-bases		n dent-47-94	-		
Erysipelas		2	1		2	5	6	8
•				<del></del>				e normalitiespi
Total	• •	14	32	31	46	123	55	84

The Infectious Disease (Notification) Act, 1889, came into force in this district on April 2nd, 1890.

SCARLATINA was prevalent in a mild form in several parishes. In Lower Beeding there were three cases in September, 1898, followed by eighteen in October, 1898, after which only one case occurred in that parish in January, 1899, and then the disorder ceased. In May, September, and October, 1899, there were again several cases, as shown in the following table:—

			PARISH.								
Month.	Star Road, Horsham.	Iffeld.	Shipley.	Cowfold.	West Grinstead.	Warnham	Lower Beeding.	Itchingfield	Total.		
January	 						1		1		
March	 	2	Spatial Materian computer	-					2		
April	 			$\overline{2}$					2		
May	 3		4	5	4				16		
June	 		1		-				1		
August	 	2							2		
September	 12		2					2	16		
October	 6	4:	-					7	17		
November	 	1							1		
December	 —	—	2			1		—	3		
Total	 21	9	9	7	4	1	1	9	61		

	Male.	Female.	Total.
Under five years .		4	4
TA* 1 1	12	20	32
Ten to fifteen years .	2	12	14
Fifteen to twenty years.	. 3	4	7
Twenty years and over .	<del>-</del>	4	4
$\operatorname{Total}$			
	17	44	61
INMATES.		CASES,	
Adults. 0-5 5-10 10-	15 Adults.	0-5	5 10 10-15
M. F. M. F. M. F. M,	F. M. F.	M. F. M	I. F. M. F <sup>•</sup>
58 52 11 12 23 28 16	19 3 8	<u>-4</u> 1:	2 20 2 12
110 109	11		50
219		61	

These 219 persons dwelt in 38 houses, and of these inmates, 61, or 28 per cent. were attacked, all persons of 15 years of age and upwards being reckoned as adults. Among the adults, 10 per cent. had the disorder; amongst the children 46 per cent. contracted the disease; no infant under 2 years of age had scarlatina.

DIPHTHERIA appeared in several parishes; in January there were several cases at Southwater apparently in connection with school attendance, and a few more cases were recorded in April and May; during the summer a few isolated cases were met with at Ifield, West Grinstead, and Billingshurst; there was a little increase, as usual, in the autumn, but there was no epidemic prevalence, and at the end of the year the disease abated. Out of the 54 children attacked, there were three deaths, one at Nuthurst, and two at Southwater.

#### THE DRAINAGE OF ROFFEY.

An inquiry on this subject was held at Horsham on January 9th, 1899.

The Clerk to the County Council (Mr. F. Merrifield) having read the notice convening the inquiry, read the application of the Horsham Urban Council, which stated that the Council felt that the state of things existing in the Star Road district was a source of danger to the health of the town, and ought not to be allowed to continue, and they were of opinion that the transfer of the district to the urban district was the remedy and would benefit the whole of the inhabitants, as the Urban Council could drain the district and dispose of the sewage, and could also furnish a supply of water. Owners of houses would be relieved from payment of the sewer rate (which it had been proposed should be increased to 1s. 6d. in the £ per annum), water consumers would only pay half the charge they were now paying, and the district would have the advantage of street lighting, paving, and other benefits enjoyed in an urban district.

Mr. Muir explained that the district was originally formed as an urban district in 1875, under the government of a Local Board. There

was an extension of the boundary in 1877, but since that date there had not been any extension. He was not able to give the population of the urban district in 1875 or 1877, but in 1881 the population was 6,876, and in 1891 it was 8,097, while at the present time it was estimated at 9,000, so that the population had increased within the urban district since 1881 by over 2,000. What was more pertinent was the increase in the district outside the urban district as it at the present time existed. There had been an increase in the ratable value since 1883 from £1,305 to £2,553, so that it was obvious that not only inside the district but immediately outside the district and within the proposed extension, the population and the houses had been on the increase. An application was made to the Local Government Board in 1883 for an extension of the boundaries. The rural sanitary authority then existing passed a resolution on January 5th, 1884, to the effect that there was no objection on their part to the extension asked for if the urban authority would consent to include the Star Road. The application was heard before the Local Government Board Inspector, and on his Report the Local Government Board wrote stating that they would consent to the extension asked for if in addition to that extension the urban authority would consent to taking the hamlets of Roffey and Little Haven, Roffey being at the extremity of Star Road and Little Haven due north. urban authority was not able to consent to this because they had considerabe difficulty with their own sewage matter, and they did not at that time see their way in dealing with a greater portion of the sewage. Since that period the Urban Council had acquired land for a sewage farm, and had executed sewage works which would enable them to deal with their own sewage, and the sewage of the district proposed for extension, even if it continued to increase at the rate which it was now increasing, for many years to come. A subsequent application was not persevered with as it was not known what the effect of the Local Government Act of 1894, then before Parliament, would have. then it appeared that owing to the dry seasons which had been experienced the sanitary condition of the area had been extremely bad, and the Medical Officer of Health for the district, in his Annual Report for the year 1896, referred to the insanitary condition of Star Road. Dr. Kelly had within the last few days viewed the same district, and in his opinion there was a tendency for the state of the things to become worse instead of better.

In visiting the schools the Vicar of Roffey could see the effect upon the health of the children, even as compared with the comparative better health of poor children from London on a visit to Roffey for a few As regarded the treatment of the sewage, the effluent discharged itself more or less in its crude condition into a pool called Leachpool, at the rear of some houses in Star Road, and within a few yards of these The stench sometimes was so great that persons driving along Some houses in the Crawley Road were drained the road noticed it. into a sewer connected with the sewer system of the Urban District, and this was under an exceedingly peculiar arrangement, and one absolutely unique in the sanitation of any district. The sewer was owned by the Rural District Council, but it emptied in the Urban District, and the Rural District paid the Urban Authority a rate of 1s. 3d. in the £. The existence of a sanitary authority was for the purpose of looking after the health of the locality, and it was assumed in all legislation for the purpose of sanitation that the whole district should pay for the

sanitation of every part of it. In this case, however, every single house which drained into the sewer had to pay this rate to the Urban Council, and the rate was about to be increased to 1s. 6d. Such an arrangement was absolutely without parallel. The rate was about double that paid in the Urban District. In regard to the water supply, the school had to be supplied by means of a water cart, while the inhabitants had to buy water from the Workhouse, and this was supplied by the Urban Authority by meter. It had been suggested that application should be made to the Local Government Board for a special drainage area, and that the area should remain under the authority of the Rural Sanitary Nothing, so far as he knew, had been suggested as to how a water supply was to be provided unless they proposed to purchase it at so much per gallon from the Urbon Authority. Close to the Workhouse was the reservoir of the Urban Authority, while the water mains passed through the road in the district which it was proposed to annex within the Urban boundary. A number of houses were connected with these mains, and a rate of 1s. 8d. in the  $\pounds$  was paid for a supply of Again, the residents paid a rate double that within the Urban The Crawley Road was formerly lit, and he was told that the gas standards still existed, and a main from the Gas Company was laid on. When that portion of Crawley Road was separated from the rest of Horsham, at the time the Local Board was formed, in 1875 or 1877, the lighting ceased, and recently the Rural Authority had requested the Gas Company to remove the gas standards, so that they evidently had no intention of lighting this place.

He was told that there would be opposition from Mr. Allcard, whose property was between two branches of the railway, but he pointed out that a boundary could not be extended only so far as where houses were erected, because if this was done some speculative builder would erect houses just outside. The road running along the southern boundary of Wimblehurst contained one of the water mains of the Urban Council. The Railway Company objected on purely financial grounds, but their property formed a convenient boundary, and his suggestion was that, whatever decision the Committee arrived at in regard to this triangular piece of land, they ought to include the whole of the railway within the Urban District, because in any case the railway formed the boundary. In regard to the defined district, he was certain for the last ten years no special area had been made covering a district in juxtaposition to the Urban District, which was willing to include it within its boundaries. The expense of draining the area by the Urban Council would be the cost of making the necessary sewers and one pumping station, whereas the cost of draining according to the methods proposed by the Rural Council would be very much more. They would have to deal with two outfalls, the annual cost of which would be considerable, apart from the expense of buying the land and making the necessary tanks and the chemical methods for dealing with the sewage. One of the points of the opposition was the amount of the debt on the part of Horsham. It was stated that the Horsham debt of £44,000 was larger than ordinary towns with a similar population. The reason was that there was a difficulty in dealing with the sewage, but this difficulty had been overcome. The general district rate had a downward tendency. Part of this debt was represented by the asset of the Waterworks, which was a Municipal concern, and therefore the Council was in a position to supply the inhabitants with water of a remarkably good

quality at a cheaper rate than a private company. The total amount of the rate for Horsham was 7s. 10d., which included the water rate for the past year. The ratable value was £39,000, and the assessable value £35,276. The rates for the rural part made a total of 3s. 11d., and where water was supplied there was a rate of 1s. 6d., and the sewer rate of 1s. 3d.

It was stated that the area of the Urban District was 833 acres, population 9,000, ratable value £39,908 5s., assessable value £35,276 14s. The amount of outstanding loans was £44,191. The area of the Star Road and Roffey district was 514 acres, number of houses 240, population (including Workhouse) 1,350, ratable value £5,215 13s., assessable value £3,971 10s. 3d. There were 25 houses, with a ratable value of £861, connected with the Crawley Road sewer, and their contributions amounted to £53 16s. 3d. Seventy houses supplied with water contributed £136, while the Workhouse, which was also supplied, with water, paid £45 18s. 4d. for the year ending March 21st, 1898. He next gave particulars as to the rating, which showed that the total amount of rate in the Urban was 7s. 10d., against 6s. 8d. in the Rural.

The Committee made the following report to the West Sussex Council on February 3rd, 1899.

"Your Committee are satisfied that better water supply and sanitary arrangements are imperatively necessary for the greater portion at least of the area proposed to be transferred from the rural to the urban district; this necessity was admitted by all parties represented at the They are, however, not at present, satisfied that the transfer is the best mode of providing these. Part of the ground proposed to be included would derive little or no benefit from being brought within the urban district, and the extreme northern portion is so placed that the natural drainage would not be in the direction of the Horsham urban sewerage system. They think it possible that the constitution of part of the parish of Horsham rural as a special drainage district, in accordance with the proposal from the Rural District Council, now before the Local Government Board, may be found a better way of attaining the desired end. That is a question the decision of which is not within the province of the County Council, but it is within that of the Local Government Board, who have at their command the engineering and other assistance to enable them to come to a suitable decision upon it. It may result from the inquiry by the Local Government Board, upon the proposal before them, that that proposal, or some other proposal, which would still leave the area under the Rural District Council, such as the constitution of the Rural Parish or the northern part of it as a separate civil parish, and consequently a separate contributory place, for the drainage and water supply of which an arrangement should be made with the Urban District Council, may be a better solution of the question than would be the transfer to the Urban District. As at present informed, your Committee are strongly disposed to think that either inclusion in the Urban District, or an arrangement under which the drainage and water supply of the Urban District can be rendered available without the great expenditure that would be entailed by providing an independent system of sewerage and water supply, will be found to be the best settlement of the question. Your Committee do not propose to report definitely either for or against the

proposal made by the Urban District Council. It may prove, after the proposal of the Rural District Council has been investigated, that it is not the best way of dealing with the matter. The question of the proposed transfer to the Urban District would then again come forward, and your Committee think it would be in that case a subject for regret that the labour and expense incurred on the consideration of this application should be thrown away, as would be the case if the inquiry were to be begun again de novo. They are consequently of opinion that they should defer their final Report until a decision has been come to by the Local Government Board on the application made to them. They therefore recommend to the County Council that the Committee of Inquiry should not be discharged, but should be authorized to defer their further Report until they consider themselves in a position to make a definite recommendation in favour of or against the proposal of the Urban District Council. If, after the application to the Local Government Board has been duly considered, it is rejected, or if it should not be prosecuted with all diligence, your Committee would consider the expediency of meeting again with a view to making their final Report on the proposal of the Horsham Urban District Council. Your Committee recommend that the Clerk of the County Council should be instructed to forward a copy of his Report to the Local Government Board, as well as to the Urban District Council and the Rural District Council, and the other parties represented at the local inquiry."

As the result of this report an application for a loan was made by the Horsham Rural District Council.

Application was made to the Local Government Board for power to borrow £3,000, and the inquiry was held on July 11th, 1899, at the Workhouse, presided over by Mr. G. W. Willcocks, M.I.C.E., one of the Inspectors of the Local Government Board "for approval of the constitution of a special drainage district, and for sanction to borrow £3,000."

The case for the Rural Council was opened by Mr. Pollock. At the commencement he described the district, incidentally showing the difficulties to be overcome, and then he arrived at the reason why it was better for the district to keep apart from Horsham. The assessable value of the Horsham Urban District was, he said, £38,877. district had a debt of £42,384, and the rates were 6s. 6d. in the £, exclusive of a water rate, compared with the rates of the Rural District, which were 3s. 8d. in the £, also exclusive of a water rate. The special sanitary district which was now asked for comprised 4,615 acres, the number of houses was 428, and, estimating the population at 4.92 persons per house, the population was 2,280 which figure included the 175 inmates in the Workhouse. The assessable value of the special district was £9,978. Mr. Pollock then explained, somewhat in detail, the scheme which had been submitted to the Local Government Board. The total cost was £3,029, and if the sum could be borrowed for 21years, that would incur an annual expense of £263, inclusive of principal and interest, which could be raised by a rate of  $6\frac{1}{4}$ d. in the £ on the present assessable value of the special district. Counsel put in a petition signed by a large number of residents in favour of the special district being constituted, and which petition included the signature of Mr. R. H. Hurst, J.P., who is the largest landowner.

Mr. Muir spoke of the Inspector as being an arbitrator between the Rural and Urban Councils. The position was a remarkable one, because the County Council, who had been appealed to, and which was composed in the main of landowners, did not see their way to connect the district with the Horsham urban area, because, as a rule, landowners did not like to be included in urban areas, the reason for which was And then it wanted a very remarkable case for the Local Government Board to sanction a special sanitary area, and none of the special circumstances existed, he submitted, in that case. And then, he would submit, the Local Government Board would only refuse the special sanitary area where the district was so remote by reason of its geographical and physical features, and there did not exist a drainage system to which it could not by reasonable cost be joined to it; and the second circumstance would be that the Local Government Board would want that the whole of the district which was said to be ripe for a special drainage district, should benefit by the proposed scheme. Now he submitted that the only part of the district which wanted to be constituted a special sanitary area by the Rural District Council immediately adjoined an existing sewerage system, viz., at Horsham. proposed new district was small in area, and contained 231 houses, and of these 25 were already connected with the urban system, and it was actually proposed by the promoters of the present scheme, to connect another 77 houses with the existing scheme, including the Workhouse, leaving only 30 houses to be dealt with. He proposed to show that by means of gravitation and with the exception of about 30 houses, the whole of the district could be drained into the existing scheme. regarded the remaining 30 houses, they could be provided for at an annual cost of £46 by being connected by mains to a pumping station with the same system. As to Little Haven, that could be drained by the new invention, the vacuum cesspool cleanser, and the sewage carried without any nuisance at all, and disposed of at the Horsham town's works. The Urban Council were prepared to give the district light, water, and scavenging to within a penny in the £ of what they would pay under a special district, and he respectfully submitted that the only and proper mode of drainage was into the Horsham sewers.

#### AN ALTERNATIVE SCHEME.

In conclusion, counsel called Mr. Renwick, Surveyor to the Urban Council, who submitted a scheme by which the drainage of Star Row, Roffey, and Little Haven could be taken into the Horsham sewers. The total cost of this was £2,806, which included a pumping station for Little Haven.

In the end the Local Government Board reported against the scheme, and suggested the appointment of a skilled engineer to form a new plan.

I still think the best course to pursue would be for the whole of this rural district to be taken into the urban district of Horsham.

#### WATER SUPPLY.

IFIELD AND CRAWLEY.—A sample of water from the new boring was analysed in March, 1898, by Dr. Thos. Stevenson, with the following results.

"The water was free from odour, and, when viewed in bulk, of a yellow colour and turbid.

It contained, and yielded, in grains per gallon :-

Total solid matters	• •	• •		• •	31.64
Loss on ignition		3 •			0.56
Combined Chlorine	• •	, •			0.98
Equal to Common Salt				• •	1.62
Nitrogen as Nitrates				• •	0.02
Nitrites			• •		none
Carbonate of Sodium					25.22
Ammonia				• •	0.020
Albumenoid and Organ	nic Am	monia			0.0025
Oxygen required to oxi	dise th	e organ	nic n	atter	0.057
Hardness in degrees	• •				$0.5\degree$

I am of opinion that this water is well fitted for domestic use. It is very soft and free from organic contamination. Like all water from fresh borings, the ammonia is rather high, but this is immaterial. The water is exceptional in this respect that it contains 25 grains of carbonate of sodium per gallon; in this respect it resembles the waters from some Mid-Kent wells. I have not found the presence of this quantity of carbonate of sodium of any detriment, except that such waters act freely on ordinary compo-metal taps."

A larger bore-hole is now being made; iron mains are being laid down in the streets, and it is hoped that by June, 1900, a good public water supply will be provided.

#### DRAINAGE AND SEWERAGE.

IFIELD AND CRAWLEY SEWAGE FARM.—The yearly receipts and expenditure are here given for the last seven years:—

Year ending March 25th.		R€ £	eceipts		•	Exp	enditu s.	ire. d.		£	Deficit	d.
1892	• •		Nil.			53	14	1	• •	<b>5</b> 3		1
1893		5	10	0		70	19	1	• •	65	9	1
1894		14	0	0		62	11	4	• •	48	11	4
1895		28	14	0		52	16	8		24	2	8
1896		13	6	0	• •	53	6	7	• •	40	0	7
1897		14	18	0		52	18	<b>2</b>	• •	30	0	2
1898		14	10	0		52	13	8		38	3	8
1899	• •	7	12	0		<b>5</b> 5	8	3	• •	47	16	3

The sale of rye grass brought in £5 10s. for 1893, £12 in 1894, £23 5s. in 1895, £12 in 1896 and 1897, and £10 in 1898; the sale of sludge brought in £2 in 1894, £5 9s. in 1895, £1 6s. in 1896, £2 18s. in 1897, and £4 10s. in 1898. Only one man is employed on the farm; the labour bill amounts to about £52 a year, besides which there are other expenses for constructing banks, laying out the ground, seeds, tools, &c., which vary from time to time.

The rye grass is sold by tender; it is cut and removed at the expense of the farmer whose tender is accepted.

The following report is the usual annual one sent in by Mr. Moses Brooks to the Horsham Rural District Council:—

- "I beg to lay before you my annual report and statement of accounts of the Crawley and Ifield Sewage Farm, for the year ending 25th March, 1899.
- "I am pleased to state that during that time I have received no complaints whatever as to the condition of the effluent water on leaving the sewage farm.
- "The sum received for the rye grass upon the farm during the past year was  $\pounds 7$ ; owing to the late frost the grass is not so forward this year, but it will soon be ready, and I would suggest to the Council that printed bills be issued, inviting tenders for the same as on previous years.
- "During the past year a large quantity of sludge has been taken from the tanks, but owing to the mild and wet winter, we have not been able to get it dry enough to take away; only 12 loads have been sold this year, therefore there is a large quantity to be disposed as soon as it is dry enough and a purchaser can be found."
- "By constant care and attention, and frequent cleaning out the pits and passing the effluent over the land, I have been able to keep the effluent water from becoming a nuisance on leaving the farm, and to ensure that this has been properly attended to. I have made 80 visits to the farm during the year, and I would remind the Council that I think the time is not far distant when something more will have to be done with regard to filtering so as to keep pace with the fast increasing number of houses in the district.

"The following is a summary of the receipts and expenditure upon the farm during the year:—

RECEIPTS.				Expenditure.
C.L. C.D. C	£	s.	d.	£ s. d.
Sale of Rye Grass as	7	0	0	Labour for the year 54 18 54
per tender 12 loads of Sludge at	1	0	0	Tools, &c $0 9 8\frac{1}{2}$
ls. per load	0	12	0	
Excess of expenditure				
over receipts	47	16	3	
£	255 ===	8	3	$\pounds 55 8 3$

### SYSTEMATIC INSPECTION.

The following is a list of routine work during the year, 1899, as recorded in the books of Mr. Brooks, the Sanitary Inspector:—

No. of Inspections made during the year	 1,794
No. of Nuisances, &c., reported	383

No. of Nuisances abated without notice	256
No. of Nuisances abated with notice	144
No. of Nuisances now in course of abatement	13
Houses reported unfit for habitation	3
Houses made fit for habitation	3
Houses closed by order of the Magistrates	0
Houses disinfected	65
Houses cleansed and limewashed	84
Water certificates granted for new houses	100
New wells dug	61
Wells cleaned out and deepened	8
Houses supplied from Horsham Waterworks	7
No. of samples of water analysed	18
No. of samples found polluted	1
Cases of overcrowding reported	8
Cases of overcrowding abated	8
New closets erected	7
New earth closets erected	54
Old closets converted into earth closets	7
Old closets provided with proper cesspits	2
No. of gully traps put in to replace bell traps	27
No. of houses connected with Crawley and Ifield	
main sewer	35
No. of houses connected with Horsham Urban	
Council's sewer	7
No. of houses connected with Warnham main sewer	7
New ventillating shafts erected	15
No. of Schools closed during the year	10

### PROCEEDINGS BEFORE THE MAGISTRATES.

On Saturday, March 25th, proceedings were taken before the Horsham Bench to abate a case of overcrowding at Southwater. An order was made to abate the nuisance in 14 days, and defendant had to pay 12s.

### NEW HOUSES ERECTED DURING 1899.

		Dep	th of Well.	Depth of Water.
Ifield	 Cottage		16ft.	12ft.
Billingshurst	 Pair of Cottages		20ft.	13ft.
Slinfold	 4 Cottages		36ft.	20ft,
Ifield	 Pair of Cottages		15ft.	13ft.
Horsham	 - Pair of Cottages		Supplied	from Horsham
			- <del>-</del>	Waterworks.
Shipley	 Pair of Cottages		55ft.	50ft.
Lower Beeding	 Pair of Cottages		54ft.	8ft.
West Grinstead	 Pair of Cottages		20ft.	18ft.
Ifield	 Pair of Cottages		14ft.	12ft.
Billingshurst	 Pair of Cottages	٠.	27ft.	24ft.
Horsham	 Pair of Cottages		30ft.	27ft.
Ifield	 Pair of Cottages		12ft.	9ft.
Ifield	 Pair of Cottages		11ft.	8ft.
West Grinstead	 Pair of Cottages	. •	22ft.	13ft.

		Depth of Well.	Depth of Water.
Ifield	Villa	-	16ft.
TC 11	77.17	000	8ft.
Ifield	Villa	32ft. Rain Water Tank	
TTonul		2261	16ft.
Horsham	Cottage	22ft.	
Lower Beeding	Villa	44ft.	8ft.
Crawley	4 Cottages	33ft.	20ft.
Horsham	Pair of Cottage		27ft.
Billingshurst	Cottage and Off	0.40.	13ft.
Ifield	Villa	24ft.	10ft.
Ifield	Pair of Villas		14ft.
Ifield	Pair of Cottage	es 15ft.	10ft.
Rudgwick	Pair of Cottage	es 43ft.	$4 \mathrm{ft.}$
	•	Rain Water Tank	, 2,000 gallons.
Itchingfield	Pair of Cottage	es 20ft.	10ft.
Billingshurst	Pair of Cottage		20ft.
Slinfold	3 Cottages		
Billingshurst	Villa	70ft.	$4 \mathrm{ft}$ .
			n Water Tank.
Horsham	Cottage	14ft.	8ft.
TC 11	D . C C		Sft.
Teala	D · CA ·		6ft.
TT 1	$\mathbf{c}$		
Horsham	Pair of Cottage	s Supplied	from Horsham Weterwerks
TT l	G.11	C 1: . 1	Waterworks.
Horsham	Cottage	Supplied	from Horsham
D'II.	200	~ 20:	Waterworks.
Billingshurst			40ft.
West Grinstead	Villa	30ft.	20ft.
Slinfold	Cottage	14ft.	$8\frac{1}{2}$ ft.
Slinfold	Cottage	. 15ft.	7ft.
Warnham	3 Cottages	23ft.	12ft.
Warnham	Pair of Cottage	s 23ft.	11ft.
Rudgwick	Pair of Cottage	s 24ft.	$12 \mathrm{ft}$ .
Rusper	Cottage	31ft.	8ft.
Itchingfield	Cottages	14ft.	6ft.
Ifield	Pair of Cottage		6ft.
West Grinstead	Pair of Cottage		7ft.
Ifield	3 Cottages	28ft.	13ft.
Horsham	Villa	2061	12ft.
••		Rain Water Tank,	
Horsham	3 Cottages	27ft.	12ft.
TO 1 . 1 T	D. C.O. II		22ft.
Tall			6ft.
	House and Sho	<u>-</u>	
Itchingfield Horsham	Cottage		7ft.
Horsham	Pair of Cottages	S Supplied	from Horsham
Teala	Cl. 11	7.)(*)	Waterworks.
Ifield	Cottage	13ft.	10ft.
Ifield Lower Beeding Ifield	Cottage Pair of Cottages Pair of Cottages	s 44ft.	

### MAIN SEWER EXTENSIONS.

During the year the main sewer at Ifield has been extended, viz.:—390ft. of 9in. sewer along the Ifield Road. At the end a standard ventilating column has been erected so as to properly ventilate the

sewer. Also the main sewer at Warnham has been extended, viz.:—487ft. of 9in. sewer has been put in on the Horsham Road. This was done chiefly to enable proper sanitary arrangements to be carried out at the Oak, and part of the costs was paid by Mr. H. Mitchell, the owner.

### COWSHEDS AND DAIRIES.

There are 63 registered cowsheds and dairies, with 381 cows. These are frequently inspected; they are well kept, and regularly limewashed.

### BAKEHOUSES.

These are 38 in number. They have been frequently inspected, and are well kept. Each bakehouse is limewashed twice a year.

### SLAUGHTER-HOUSES.

There are 24 slaughter-houses in the district. They are well kept, and are frequently limewashed. They are often inspected to see that no nuisance arises.

### RAINFALL.

This table showing the rainfall in each month has been kindly sent to me by H. Padwick, Esq., M.A., Manor House, Horsham, who has made similar observations for many years:—

	1000		1005		1000		1899.	
	1896. Fall in inches.		1897. Fall in inches.		1898. Fall in inches.	Fall in inches.	No. o	of Rainy days.
January	1.07		2.65		0.59	 3.27		16
February	0.45		4.12		1.57	 3.12		4
March	3.49		$5 \cdot 34$		1.44	 0.83		4
April	0.41		2.61		1.17	 3.27		18
May	0.35		1.04		3.92	 1.69		11
June	3.05		1.84		1.30	 0.84		5
July	1.81		2.43		1.28	 1· <b>9</b> 9	• •	7
August	$2 \cdot 42$		3.35		1.55	 0.42		5
September	7.41		2.73		1.03	 3.15		11
October	4.77		0.86		4.69	 $2 \cdot 43$		9
November	1.95		1.62		5.86	 5.67		7
December	5.83	• •	4.36	• •	3.54	 1.99	• •	15
	33.01		32.95		27.94	28 67		119

Year.						Fall in inches.		No. of Rainy days.
1899	• •			• •		28.67		119
1898	• •	• •				27.94	• •	145
1897	• •					32.95		159
1896	• •				• •	33.01		153
1895	• •					31.36		153
1894			• •			42.18	• •	189
1893				• •		25.06		<b>156</b>
18 <b>92</b>					• •	27.53		161
1891	• •				• •	34.84		178
1890			• •		• •	25.87		143
		•						
		Ŋ	Iean	• •	• •	30.94	• •	156

Diameter of funnel, 8 inches; above sea level, 140 feet.

### INQUESTS.

Inquests were held in fourteen cases:—Male, 19 years, fractured skull from an accidental fall from scaffolding 6ft. 3in. high; male, 10 years, acute congestion of brain and pneumonia; male, 6 months, pneumonia; male, 44 years, pneumonia, accelerated by fatty degeneration of the heart; male, 72 years, sudden failure of the heart; female, 73 years, fatty degeneration of the heart; female, 61 years, fatty degeneration of the heart; female, 49 years, inflammation of the lungs; male, 4 months, convulsions; male, 43 years, accidental fall from a carriage; male, 23 years, suicide by throwing himself in front of a train; male, 62 years, suicide by hanging; male, 57 years, accidental fall from a tree; female, 41 years, consumption accelerated by want of sufficient nourishment.

There were four deaths returned as "not certified" during the year:—male, 54 years, cancer of face; male, 43 years, rupture of blood yessel; female, 3 months, convulsions; female, 89 years, cardiac failure.

TABLE 1.—Showing the Deaths at various groups of ages in the fifteen years, 1881-95 and in 1896-99.

Period.	At all ages.	Under 1 Year.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 & upwards.
1881-85	1,042	189	93	57	55	318	330
1886.90	1,142	223	110	76	60	280	393
1891-95	1,235	197	102	70	63	346	457
Per 1,000	1,000	178	89	60	52	276	345
1896	214	45	14	11	9	56	79
1897	232	39	18	10	11	79	75
1898	248	38	10	. 5	9	79	107
1899	258	39	24	8	12	. 72	103

Table 2.—Showing the Deaths from various causes in the twenty years, 1876-95, and in 1896-99.

				Croup.		F	ever	s.	_				Cough.		Fever.		
Period.	Small Pox.	Scarlatina.	Diphtheria.	Membranous (	Typhus.	Enteric.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Co	Diarrhæa.	Rheumatic Fe	Influenza.	Total.
1876-80	1	9	9		_	9	3	-	3		_	17	23	19	1	_	94
1881-85		4	29		1	3	3		4	_	6	5	20	16	4		95
1886-90	1	9	11		1	3	2				2	27	28	21	2	3	110
1891-95	5	3	20	1	-	5			1		4	10	13	8	2	41	113
1896	_		5			3	_	_		_	_	1	6	1	1	3	20
1897		-	7	,	—	1				_		1	6	5	1	2	23
1898	-	_	2	_	_	1			-		_		1	7	1	7	19
1899	_	_	3	_	_	_		_	_	_			7	6	2	.7	25
Total	7	25	86	1	2	25	8		8	_	12	61	104	83	14	63	499

Table 3.—Showing the Death-rate per 100,000 persons living from all causes, and from various causes, in different localities, during the twenty years, 1876-95, and the Death-rate in 1896-99.

LOCALITY.	All Diseases.	Notifiable.	Non-notifiable.	Phthisis.	Lung Disease.	Heart Disease.
South Sub-District	1,431	60	65	122	227	115
Ifield Parish	1,298	58	72	101	215	138
Rest of North S.D	1,341	<b>3</b> 1	71	131	286	103
West Sub-District	1,499	49	60	164	250	146
Mean	1,394	48	68	132	251	122
PERIOD.						
1876-80	1,418	46	81	<b>16</b> 3	274	110
1881-85	1,329	64	57	123	233	100
1886-90	1,399	36	95	148	225	127
1891-95	1,430	45	39	96	274	151
1896	1,140	43	48	69	154	186
1897	1,218	42	68	115	147	147
1898	1,278	15	47	151	140	202
1899	1,325	15	77	108	180	200

# (A)—Table of DEATHS during the Year 1899, in the HORSHA

	Мс				ALL D AG		ES			
Names of Localities adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	At all ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and up- wards.		Small Pox.	Scarlatina. 13
(a)	(b)	(c)	(d)	(e)	()	(g)	(h)	(i)	Smg	Scal
South Sub-District	51	6	7	4	2	13	19	Under 5 5 upwards.		
Ifield Parish	38	6	3		3	13	13	Under 5 5 upwards.		
Rest of North Sub-District	84	13	6	2	5	26	32	Under 5 5 upwards.		
West Sub-District	56	12	8	2	1	11	22	Under 5 5 upwards.		
Cowfold Parish	10	2				6	2	Under 5 5 upwards.		
Horsham Workhouse	28			_		7	21	Under 5 5 upwards.		
Ifield Cottage Hospital	•							Under 5 5 upwards.		
•								Under 5		
								5 upwards.		
								Under 5 5 upwards.		
								Under 5		
Totals	267	39	24	8	11	76	109	5 upwards. Under 5 5 upwards.		
		No. Allert	Tì	ne su	bjoir	red n	umbe	ers have also to	be	taken
Deaths occurring outside the District among persons belonging thereto	s 1				1			Under 5 5 upwards.		
Deaths occurring within the District among person not belonging thereto	s 10					4	6	Under 5 5 upwards.		

URAL DISTRICT, classified according to Diseases, Ages, and Localities.

OF	ORTALITY FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.														LDRE	N		
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
·ď	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhæa and Dysentery.	Rheumatic Fever.	Phthisis.	Bronchitis, Pneumonia, and Pleurisy.	Heart Disease.	Influenza.	Injuries.	All Other Diseases.	AL.
Croup.	Typ	Ent	Com	Rela	Pue	Cho]	Ery	Mea	Whoopi Cough.	Dys.	Rheum   Fever.	Pht	Bron Pne and	Heart   Disease	Influ	Inju	All   Dise	Toral.
				• • •					3			• • • • •	. 3				6	13
												1	5	8	2	1	19	38
								· · · · ·				• • • • •	2	. • • • •			7	9
												3	2	15			9	29
													3		1	••••	.12	19
		-								1		9	10	12	2	4	27	65
	• • • • •			••••					4	$\frac{2}{\dots}$		• • • • •	$\dots$ 2	• • • • •		• • • •	.12	20
											1	5	6	3	1		20	36
	· · ; · ·									• • • • •			1					$\frac{2}{\dots}$
												2	1		1		4	8
								• • • • •				• • • • •						
												3		4			21	28
	• • • • •										• • • • •		•••••					<del></del>
	• • • • •										• • · • •							• • • • • • •
	• • • • •											•••••		•••				
		-								-								
		-																
									7	5			11		1.			63
										1	1	23	24	42	6	5	100	204
or	int	in ju	dging	of t	he al	bove	recor	ds d	of mo	rtali	ty.							
		• • • • • • •				ļ			ļ	1						• • • • •		
									1		1							1
		3										2		3			5	10

(B)—TABLE OF POPULATION, BIRTHS, AND OF NEW CASES
Officer of Health, during the year 1899, in the HORSHAM

						9404 F 400 F 100				
Names of Localities adopted	Popul at all	1	Births.	A 3	сомі	JASES LE KN				
for the purpose of these Statistics; Public Institutions		12 (:		Aged under 5	1	2	3	4	5	6
being shown as separate localities.	Last Census	1899.	Registered	or ever 5.	Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Enteric or
(a)	(b)	(c)	(d)	(e)	Sr	So		CE	T	도 <u>-</u>
South Sub-District	4,051	4,250	70	Under 5		11	5			
				5 upwards.		12	21			
Ifield Parish	2,817	3,295	64	Under 5						
	_			5 upwards.		9	7	-!		2
Rest of North Sub-District	5,568	6,420	150	Under 5		2				
				5 upwards.		21	12			1
West Sub-District	4,180	4,400	109	Under 5		}	2			
				5 upwards.		9	6			
Cowfold Parish		920	16	Under 5		1				·
				5 upwards.		6	1			
Horsham Workhouse	. 182	180	_	Under 5						
				5 upwards.		_	.]			_[
Ifield Cottage Hospital		5		Under 5					•••••	
				5 upwards.	_	_			-	_
				Under 5						
	1		-	5 upwards.	_		-			
				Under 5						
			-	5 upwards.						
				Under 5		• • • • •				
	_			5 upwards.			1			_
				Under 5						
				5 upwards.						
Totals	16,798	19,470	409	Under 5		4	7			
				5 upwards.		57	47			•

INFECTIOUS SICKNESS, coming to the knowledge of the Medical all District; classified according to Diseases, Ages, and Localities

5 IN E	EACH <b>M</b> EDI	LOCAL	ALITY Office	Number of such Cases Remover Homes in the several Localities in Isolation Hospita											OR T	THE	IR MENT	
LTH.									]	IN IS	OLAT	ION J	10SP	ITAL.	1 ,		1	
8	9	10	11	12	13	1	$\begin{bmatrix} 2 \\ - \end{bmatrix}$	3	4	5	6	7	8	9	10	11	12	13
EVER	s.							•	as			EVER						
Relapsing.	Puerperal.	Cholera.	Erysipelas.			Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.		
			1	• • • • •												••••		• • • • •
			1															
			3							• • • •								
	•	,								• • • •						••••		
											••••		•••••	• • • • •	• • • • •			
							• • • • •						••••		• • • • •			
					••••		• • • • •			. • • •			••••			•••••		,. • • • • •
							• • • • •											
									••••									
			5									• • • • •	••••	• • • • •	• • • • •	• • • ) • • ]		

# PETWORTH RURAL DISTRICT.

pp. 57 et seq.

# PETWORTH RURAL DISTRICT.

The population in this registration district was 9,680 at the census of 1841 and 9,629 in 1851; chiefly owing to changes in the area, it rose to 10,065 in 1861, but since 1871 there has been a steady decline.

The following figures relate to the present rural sanitary area, which is co-extensive with the registration district:—

	1861.	1871.	1881.	1891.
Area in Statute Acres		44,747	45,701	45,738
Number of Inhabited Houses	1,970	2,010	1,995	2,000
" Uninhabited "	72	64	120	119
Population	10,065	10,147	9,594	9,431
Males	5,213	5,296	4,857	4,711
Females	4,852	4,851	4,737	4,720
Persons to a House	5.11	5.05	5.81	4.71

The following table gives the usual information as to the incidence of various diseases in each parish in this district.

In Table 3 the death-rates for various groups of diseases are given for Petworth Parish and for each Sub-District.

The mean general death-rate for the whole district is 15.7 per 1,000 in the twenty years 1876-95, and there has been a gradual reduction in the rate from 16.09 in the first five, to 15.19 in the last five-year period.

All deaths in Petworth and Wisborough Green Workhouses have been distributed each year to each parish whence the inmate came. The mortality is fairly uniform throughout the whole area, but lung disease is more common in the northern parishes which form a cold and wet clay area.

Table showing the Deaths from various causes in each Parish in the twenty-four years, 1876-99.

All Diseases.		601	321	575	1106		284	45	25	20 (	<u></u>	41	115	57	206	3502	
Heart Disease.		09	31	40	103	<b>⊙</b> 1	42	ಣ -	· ·	4	12	4	17	10	53 8	357	
Lung Disease.		102	54	112		ಣ	48	$\infty$	್ಷಾ	4	18	1-	<u>~</u>	4	28	571	
		.sisidədY	52	36	46	106	j	53	ಣ		ಣ 	9	01	$\infty$	ರ	10	301
le.		Rhenmatic Fever.				ତୀ		ಣ			1	1			1		9
Non-notifiable.		Diarrhæa.	0.7		-	10		ಣ		-			<del></del>			01	21
		Whooping.	4	ಣ	ຜ	22		<del></del> 1					<u>ତୀ</u>		61	₩	43
Z		Measles.	60	Belleville		1-					1		0.1				14
	<i>'</i>	Erysipelas.		0.7		ಣ				1		1				İ	$\infty$
e.		Puerperal.		MA MILITERIA	67	67					İ						4
	ers.	Continued.							İ								
	Fevers.	Enteric,	ಣ		ಣ	10				က							20
Notifiable.		.sundyT								-							
No	Membranous Croup.					1											
	Scarlatina. Diphtheria.		<b>5</b> .	10	16	12	,—	9	01				1	33	67	6	69
				Name of the Park		<u></u>	Ì		-	-						6.7	0
	V.	Small Pox.									1			,			62
			•		•	•	•	:			•	•			•		
Parish.		Wishorongh Green		Kirdford	Petworth	Egdean	Fittleworth	Stopham	Coates	Burton	Duncton	Barlavington	Sutton	Bignor.	Bury	Total	

#### BIRTHS AND BIRTH-RATE

During the year 1899, the births of 194 children were registered; of these 110 were male, and 84 were female.

Estimating the population in the middle of the year at 9,340, the birth-rate was equal to 20.8 per 1,000 persons living.

The births and birth-rate during the past ten years were thus registered:—

Year.	Births.	В	irth-rate.		Year.	Births.		Birth-rate.
1890	 223		23.5		1895	 202		21.5
1891	 251		26.6		1896	 244		26.0
1892	 214		22.7		1897	 203	• •	21.7
1893	 251		26.7		1898	 220		23.5
1894	 227		$24 \cdot 1$	İ	1899	 194		20.8

The mean number of births is 223, and the mean birth-rate is 23.7 per 1,000 of population.

In England and Wales the birth-rate during the year was 29.3 per 1,000 persons living, a rate 1.0 per 1,000 below the mean rate in the ten years, 1889-98, and lower than in any other year on record.

The following table shows the births and birth-rate in each locality during three periods:—

	Birth-rate.		Bir	ths.	Birth-rate.	
	1876-84.	1893-97.	1898.	1899.	1898.	1899.
North Sub-District	$29 \cdot 2$	25.3	99	85	$25 \cdot 2$	21.6
Petworth Parish	$29 \cdot 2$	22.5	60	60	21.4	21.4
Rest of South S.D	29.2	23.6	61	<b>4</b> 9	23.5	18.8
				***************************************		
Mean	$29 \cdot 2$	24.0	220	194	23.5	20.8

#### GENERAL MORTALITY.

There were 105 deaths registered in this district during the year 1899; of these 6 took place in Petworth Workhouse, 3 in Wisborough Green Workhouse, and none in Petworth Cottage Hospital. These deaths have been distributed among the several parishes whence each inmate came, viz., Wisborough Green 1, Kindford 2, Petworth 2, Egdean 1, Duncton 1, and Bury 2.

Estimating the population in the middle of the year at 9,340, the death-rate was equal to 11.2 per 1,000 persons living.

In country places throughout England and Wales the rate of mortality in 1899 was equal to 16·3 per 1,000 of population, or 0·5 per 1,000 below the mean rate in the ten years, 1889-98.

The variations in the death-rate during the past ten years in this district are here given:—

Year.		Deaths.	1	Death-rate.		Year.	Deaths.	1	Death-rate.
1890		136		14.3		1895	 154		16.4
1891		153		16.2		1896	 129		13.7
1892	•	163		17.3		1897	 113	• •	$12 \cdot 1$
1893		129		13.7		1898	 152		16.3
1894		116		12.3	1	1899	 105		11.2

Thus there have been during the above period 1,350 deaths and a mean mortality of 14·3 per 1,000. During the same period there were 2,229 births, so that the natural increase of population by excess of births over deaths was 879.

In each locality the deaths and death-rate are here shown for the past four years:—.

		Dea	ths.			Death-rate.				
	1896.	1897.	1898.	1899.	1896.	1897.	1898.	1899.		
North Sub-District	60	59	66	51	15.2	15.0	16.8	13.0		
Petworth Parish	37	26	35	29	13.0	9.3	12.5	10.3		
Rest of North S.D	32	28	51	25	12.3	10.8	19.6	9.6		
:										
Total	129	113	152	105	13.7	$12 \cdot 1$	16.3	11.2		

In each parish the deaths in 1899 were thus distributed:—

Wisborough	Green	١	22	 Coates	• •	 1
Northchapel	l		14	 Burton		 none
Kirdford			15	 Duncton		 4
Petworth			29	 Barlavingto	n	 none
Egdean			2	 Sutton		3
Fittleworth			4	 Bignor		 1
Stopham	• •			Bury		 9
•	•			105		

#### INFANT MORTALITY.

The infant mortality is here given as measured by the number of deaths under one year of age to the total number of births in the year:—

	Births.	Deaths under Ratio to one year. 1,000 Births.	Ratio 1898.
North Sub-District	85	16 188	81
Petworth Parish	60	6 100	117
Rest of South Sub-District	49	$2 \qquad 143$	115
Total	194	$24 \qquad 124$	100

In England and Wales the proportion of deaths under one year of age to registered births was 163 per 1,000 during the past year, the mean proportion in the preceding ten years having been 151.

### ZYMOTIC MORTALITY.

There were no deaths from zymotic diseases in the case of those which are notifiable, and one in the other class where the number of cases cannot be obtained. The rate of mortality was therefore equal to 0.11 per 1,000.

					Cases.	Deaths.
	Small Pox		• •		 none	none
	Scarlatina				 5	none
	Diphtheria				 8	none
	Membrano	us Cr	oup		 none	none
	Typhus	e •	• •		 none	none
S.	Enteric				 2	none
Fevers.	{ Continued	• •		• •	 none	none
Fe	Relapsing				 none	$\mathbf{none}$
	Puerperal	• •			 1	none
	Cholera		• •		 none	none
	Erysipelas			• •	 2	none
	,					
			Total	• •	 18	none

In the other class the deaths were thus recorded:—

			Deaths.
Measles			 none
Whooping Cough			 1
Diarrhea and Dyse	ntery		 none
Rheumatic Fever			 none
	T	otal	 1

The Infectious Diseases (Notification) Act, 1889, came into operation in this district on February 2nd, 1891.

The Infectious Disease (Prevention) Act, 1890, came into operation in this district in 1891.

There were 44 cases notified in 1891; 49 in 1892; 60 in 1893; 53 in 1894; 37 in 1895; 30 in 1896; 32 in 1897; and 26 in 1898.

The prevalence in each quarter of 1899 and in 1897-98 of each notifiable disease is shown in the following table:—

		8								
		1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Total 1899.	1898.	1897.		
Small Pox		distillers accorded						dhalan aareas		
Scarlatina			3		2	5	6	5		
Diphtheria		5		1	2	8	15	19		
Membranous Crow	ιp						1			
Enteric Fever	•	•		1	1	, ${f 2}$	***************************************	5		
Continued Fever		***************************************	-			60 th Grand	-			
Puerperal Fever		1	***********	dividire assesses		1	2			
Erysipelas				1	1	2	2	. 3		
Total		6	3	3	6	18	26	32		

#### WATER SUPPLY.

PETWORTH.—A sample of the water was sent on December 29th to Dr. Otto Hehner who, after analysis, sent the following report:—

# 100,000 parts of the water were found to contain

Chlorine						2.20
Sulphuric Ad	eid					1.16
Nitric Acid	• •					2.70
Phosphoric A	Acid					trace
Free Ammon	nia					0.0015
Albuminoid	Ammoni	ia				0.0027
Oxygen abso	rted fron	n Pern	nangana	te in 1	5 min.	0.0088
Ditto in four	hours,	both a	t 80° F.			0.0208
Total solids,	dried at	$212^{\circ}$ I	ਤਾ	0 0		20.00
Loss of ignit	ion					2.56
Total hardne	ess		• •			8.8
Colour in tw	o-foot tu	.be		•		bluish

The above results agree most closely with those obtained in 1897, and set forth in my report dated November 29th, 1897, but at the present time the water is considerably softer than on that occasion.

Organically the water is of great purity and there are no indications whatever of organic contamination. The amount of mineral matter in solution is quite moderate and the hardness small.

The quality of the supply is perfectly satisfactory.

BYWORTH.—During the year about twenty Cottages, the School, two Farm Houses and Outbuildings in the village of Byworth, the property of Lord Leconfield, have been provided with a water supply by him. The water is derived from a natural spring in the village, 5ft. below the surface, whence it runs through 3 inch iron pipes at the rate of 17,000 gallons per 24 hours, to a ram, a fall of thirty-two feet, which forces it at the rate of 4,000 gallons per 24 hours, into a reservoir containing about 1,600 gallons, at an elevation of about 110 feet above ram, and 50 feet above the village street. The water there flows by gravitation to the village through  $1\frac{1}{2}$  inch iron pipes. The cottages are supplied from two stand pipes, fitted with self closing taps placed in the village street, each cottage being supplied with a key. The pipes used are coated with Dr. Angus Smith's Solution. The water has been analysed by Dr. Voelcker, and found to be very satisfactory.

FITTLEWORTH.—At the request of the Parish Council a house to house inspection of the village was made, and a report sent in to the Rural District Council on May 16th.

Many minor nuisances were remedied, and improvements were made in the water supply.

### SYSTEMATIC INSPECTION.

The following is the Report of the Inspector of Nuisances, Mr. Suter, for the year ended December 31st, 1899:—

No. of Premises visited		306
No. of Nuisances reported	• •	114
No. of Nuisances abated without notice	• •	74
No. of Nuisances abated with notice	• •	40
No. of Houses disinfected and limewashed		15
No. of New Closets erected	• •	7
No. of Old Closets converted		10
No. of New Wells sunk		8
No. of Samples of Water analysed		28
No. of Water Certificates granted		7
No. of Water Certificates refused		1
No. of New Houses built		11
No. of New Houses building		3
No. Cases of Overcrowding reported		2
No. of Cases Removed to Isolation Hospital	• •	1

#### BAKEHOUSES.

The Bakehouses are well kept, and are regularly limewashed; two have been closed during the year. In no case is there any drain within the building.

#### SLAUGHTER HOUSES.

These are nine in number, and are well kept.

#### COMMON LODGING HOUSE.

There is one Common Lodging-House in the district, which is welkept.

#### PROCEEDINGS BEFORE THE MAGISTRATES.

Proceedings were taken in two cases against persons for infringement of the By-Laws relating to tents, vans, and sheds. Convictions were obtained, and penalties inflicted in both cases.

Proceedings were also taken against the owner of four new houses at Loxwood, for allowing the same to be occupied without his first having obtained a water certificate. The summons was dismissed, upon the owner paying costs, and giving an undertaking to provide a sufficient supply of wholesome water, and apply for a certificate within a reasonable time.

#### DAIRIES AND COWSHEDS.

New regulations were made by the Rural District Council with respect to Dairies, Cowsheds, and Milkshops, which now will take the place of the old regulations framed on April 12th, 1887.

#### BY-LAWS.

By-Laws were made on December 13th, 1898, with respect to tents, vans, sheds, and similar structures used for human habitation; they were allowed by the Local Government Board, February 2nd, 1899.

### INQUESTS.

Inquests were held in nine cases:—Male, 1 month, inanition due to injudicious feeding; female, 62 years, suicide by drowning; female, 2 years, lung disease; male, 4 months, congenital malformation of the heart; female, 2 years, accidentally burnt; male, 34 years, suicide by drowning; female, 3 years, accidentally burnt; male, 77 years, congestion of brain and failure of the heart; female, 18 years, congestion of the lungs.

There were no deaths returned as "non-certified" during the year.

N. Committee of the Com

# PETWORTH RURAL DISTRICT.

Table 1.—Showing the Deaths at various groups of ages in the fifteen years, 1881-95 and in 1896-99.

Period.	At all ages.	Under 1 Year.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 & upwards.
1881-85	749	109	57	34	39	222	288
1.886-90	754	102	47	32	39	226	308
1891-95	715	102	46	33	25	205	304
Per 1,000	1,000	141	68	45	46	294	406
1896	129	23	6	7	7	33	53
1897	113	16	5	2	8	30	52
1898	152	22	7	4	6	46	67
1899	105	24	2	3	2	33	41

# PETWORTH RURAL DISTRICT.

Table 2.—Showing the Deaths from various causes in the twenty years, 1876-95, and in 1896-99.

				Croup.		F	ever	s.					Cough.		Fever.		
Period.	Small Pox.	Scarlatina.	Diphtheria.	Membranous	Typhus.	Enteric.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Co	Diarrhea.	Rheumatic Fe	Influenza.	Total.
1876-80	1	6	25			6		_	4			4	8	6	3	_	63
1881-85		1	10			5				_	4		7	6	1		34
1886-90		2	14			7					2	4	8	6	-		43
1891-95	1	_	14			2					-	2	16	2	1	34	72
1896	_		3									2	3		1	_	9
1897			2				_				2						4
1898			1	1					-			2	_	1		2	7
1899			_		_	_				_			1			3	4
Total	2	9	69	l		20	-		4	, —	8	14	43	21	6	39	236

#### PETWORTH RURAL DISTRICT.

Table 3.—Showing the Death-rate per 100,000 persons living from all causes, and from various causes, in different localities, during the twenty years, 1876-95, and the Death-rate in 1896-99.

LOCALITY.	All Diseases.	Notifiable.	Non-notifiable.	Phthisis.	Lung Disease.	Heart Disease.
	1,538	50	20	143	296	121
Petworth Parish	1,688	60	67	167	286	157
Rest of South S.D	1,526	56	38	108	230	204
Mean	1,570	54	39	139	263	153
PERIOD.						
1876-80	1,609	86	43	155	283	110
1881-85	1,568	42	29 .	144	264	159
1886-90	1,584	52	38	146	245	174
1891-95	1,519	*36	45	113	261	168
1896	1,375	32	64	106	149	318
1897	1,210	43		118	171	128
1898	1,627	21	32	<b>5</b> 3	214	150
1899	1,124		11	75	182	96

(A)—Table of DEATHS during the Year 1899, in the PETWOR'

(A)—Table of	DEA	ATH	.S d	urın	g the	e Ye	ear 1	1899, in the P	ETA	VOR.
	М			FROM OINE		Caus es.	ES			
Names of Localities adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	At all ages.	Under 1 year.	l and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and up- wards.		Small Pox.	Scarlatina.
(a)	(b)	(c)	( <i>d</i> )	(e)	( <i>f</i> )	(g)	(h)	(i)	Sm	Sca
North Sub-District	48	16	2	2	1	11	16	Under 5 5 upwards.		
Petworth Parish	27	6				10	11	Under 5 5 upwards.		
Rest of South Sub-District	21	2		1	1	10	7	Under 5 5 upwards.		
Petworth Workhouse	6					2	4	Under 5 5 upwards.	••••	
Wisborough Green Workhouse	3						3	Under 5 5 upwards.		
Petworth Cottage Hospital								Under 5 5 up <b>w</b> ards.		
								Under 5 5 upwards.		
6	•							Under 5 5 upwards.	• • • • •	
								Under 5 5 upwards.	••••	
								Under 5 5 upwards.	••••	
Totals	105	24	2	3	2	33	41	Under 5 5 upwards.		
			Th	e su	bjoin	ed nı	ımbe	rs have also to	be to	aken i
Deaths occurring outside the District among persons belonging thereto		1						Under 5 5 upwards.		

Under 5

5 upwards.

Deaths occurring within the District among persons not belonging thereto...

# AL DISTRICT, classified according to Diseases, Ages, and Localities.

5	6	7	S	9	10	11	12	13	14	15	16	17	18	19	20	21	22
		EVER		al.		las.	•	Bu	a and ry.	tic		tis, nia, rrisy.		.a.	•	er 3.	
ı ypınas.	Enteric o Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhœa and Dysentery.	Rheumatic Fever.	Phthisis.	Bronchitis, Pneumonia, and Pleurisy	Heart Disease.	Influenza.	Injuries.	All Other Diseases.	Toral.
												4			1	13	18
							***************************************				4	2	4	2	1	17	30
• • •	• • • • •														1	5	6
											1	5	$\frac{2}{-}$	1		12	21
			• • • •					1				1	• • • • • •				2
											2	4	1		l — –	11	19
										• • • •							
												1	1			4	6
			,										1			2	3
									•••••							• • • • • •	
										ļ							
			1														
											,						
								1				5			2	18	26
											7	12	9	3	2	46	79
ir	jud	ging	of th	ne ab	ove	recor	ds o	f mo	rtalit	y.			ļ		<u> </u>		
				1		ah j											
• •		• • • • • •	• • • • • •	· · · · · · · · · · · · · · · · · · ·		• • • • •	• • • • • •	* * * * * * *				•••	• • • • •	1			

# (B)—TABLE OF POPULATION, BIRTHS, AND OF NEW CAST

Officer of Health, during the year 1899, in the PETWORT

Names of Localities adopted		AGES.	rths.	Agod	COMI			CASES LE KN		
for the purpose of these Statistics; Public Institutions			Bin	Aged under 5	1	2	3	4	5	
being shown as separate localities.	Census	1899.	Registered Births.	or ever 5.	Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	VE Comoton
(a)	(b)	<b>(</b> c)	(d)	(e)	<u> </u>	<u>~</u>		CE		
North Sub-District	3,983	3,900	85	Under 5 5 upwards.		3	: 1		* * * * * *	
				Under 5			1			-
Petworth Parish	2,831	2,765	60	5 upwards.	• .• • • •	1	1			
Root of South Sub District	2,545	2,600	49	Under 5		1				-
Rest of South Sub-District	2,010	<i>2</i> ,000	49	5 upwards.			5			
Petworth Workhouse	33	35		Under 5				1		
Petworth Workhouse	00	90		5 upwards.						
Wisborough Green Workhouse	36	35		Under 5						
Wissorough Oreen Workhouse		30		5 upwards.						
Petworth Cottage Hospital	3	5		Under 5						
Lower on Courage Hospital				5 upwards.						- -
				Under 5		••••				
				5 upwards.						_
				Under 5						
		-		5 upwards.						
				Under 5						
		-		5 upwards.						-
				Under 5						
	-			5 upwards.						_
				Under 5						
				5 upwards.						
Totals	9,431	9,340	194	Under 5		1	1			
				5 upwards.		4	7		1	

INFECTIOUS SICKNESS, coming to the knowledge of the Medical Land District; classified according to Diseases, Ages, and Localities

IN H HE I TH.	each Medi	Lec <i>a</i> Cal	ALITY Offic	, CER		]	Nu Home	IMBE ES IN	THE	SEV.	H CAS ERAL SOLATI	Loca	ALITI	ES FO	or Ti	THE REATI	IR MENT	
8	9	10	11	12	13	$\lceil 1 \rceil$	2	3	4	5	6	7	8	9	10	11	12	13
VER	s.								us u		1 1	EVER						
Relapsing.	Puerperal.	Cholera.	Erysipelas.			Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Enteric or   Typhoid.	Continued	Relapsing.	Puerperal.	Cholera.	Erysipelas.		
			1															
											1		H					
	1		1										• • • • •		-			•••
	•				-					. ,.								
	• • • • •							-		•								
								_										• • • •
• • • •	•	-	• • • • • • • • • • • • • • • • • • • •	-	-	-				-			-					
	-		-		-			, , , , , , , , , , , , , , , , , , ,							· · · · · · · ·			
	-		-		• • • • • • • • • • • • • • • • • • • •			-	• • • • • •									
																-		

# THAKEHAM RURAL DISTRICT.

pp. 73 et seq.

# THAKEHAM RURAL DISTRICT.

The population in this registration district was 7,577 at the census of 1841 and 7,434 in 1851; chiefly owing to alterations in area, it rose to 8,036 in 1861, but since 1871 there has been a steady decline in the number living.

The following figures relate to the present rural sanitary area, which is co-extensive with the registration district:—

Area in Statute Acres	1861.	1871. $40,025$	1881. 40,6 <b>3</b> 6	1891. 40,636
Number of Inhabited Houses	1,590	1,689	1,652	1,610
" Uninhabited "	64	. 79	131	113
Population	8,036	8,335	8,285	8,049
Males	4,121	4,274	4,247	4,194
Females	3,915	4,061	4,038	3,855
Persons to a House	5.05	4.93	5.01	5.00

The following table gives the usual information as to the incidence of various diseases in each parish in this district.

In Table 3 the death-rates for various groups of diseases are given for the chief Parishes and for each Sub-District.

The mean general death-rate for the whole district is 14.98 per 1,000 in the twenty years 1876-95, and there has been a gradual reduction in the rate from 15.63 in the first five, to 13.89 in the third five-year period, but since then there has been a rise.

In 1896 and also in 1897-99, the rate of mortality was unusually low.

All deaths in Thakeham Workhouse have been distributed each year to each parish whence the inmate came.

Table showing the Deaths from various causes in each Parish in the twenty-four years, 1876-99.

	.S.	əssəsiU IIA	34 228 70 16 38 176 176 674 238 463 148 33 92 92 92 283 283	2877
	.ase.	esiU treeH	800042   427 4 8 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	292
	*əsr	səsiU ZunA	201 201 201 201 201 201 201 201 201 201	490
		.sisidad4	60 10 10 10 10 10 10 10 10 10 1	249
ble.		Rheumatic Fever.		9
tifia		Diarrhea.	10 -     0 4   4 - 0 0 0 0   4 0 0	37
Non-notifiable.		gniqoodW Gough.	CD   L   D   CD   CD   CD   CD   CD	80
Z		Measles.		12
	,			
		Erysipelas.		13
		Puerperal.		9
	Fevers.	Continued.		
ole.	Fev	Enteric,		24
Notifiable.	)	Typhus.		22
Z	SI	nonsrdməM .quorO		က
		Diphtheria.		09
		Scarlatina.	4	25
		Small Pox.		-
		Parish.	North Stoke Amberley Rackham Greatham Cold Waltham Wiggonholt West Chiltington Parham Sullington Chakeham Warminghurst Ashington Wiston Washington Washington Washington	Total

#### BIRTHS AND BIRTH-RATE.

During the year 1899, the births of 185 children were registered; of these 101 were male, and 84 were female.

Estimating the population in the middle of the year at 8,000, the birth-rate was equal to 23.1 per 1,000 persons living.

The births and birth-rate during the past ten years were thus recorded:—

Year.		Births.	В	irth-rate.		Year.	Births.	]	Birth-rate.
1890		210		25.9	1	1895	 197		24.6
1891		223		27.7		1896	 185		23.1
1892		185		23.0		1897	 172		21.5
1893		207		25.9		1898	 184		23.0
1894	• •	188		23.5	İ	1899	 185	• •	$23\cdot 1$

The mean number of births is 193, and the mean birth-rate is 24·1 per 1,000 of population.

In England and Wales the birth-rate during the year was 29.3 per 1,000 persons living, a rate 1.0 per 1,000 below the mean rate in the ten years, 1889-98, and lower than in any other year on record.

The following table shows the births and birth-rate in each locality during three periods:—

	Birtl	1-rate.	Birt			-rate.
	1877-84.	1893-97.	1898.	1899.	1898.	1899.
Amberley Parish			11	19	21.1	36.5
Pulborough Parish	32.6	24.8	44	48	$24 \cdot 4$	26.7
Rest of Pulborough S.D	29.7	$27 \cdot 1$	36	39	25.5	$27 \cdot 7$
Storrington Parish	28.7	$21 \cdot 1$	26	16	20.6	12.7
Washington Parish			23	16	27.0	18.8
Rest of Washington S.D.	31.7	20.9	44	47	20.4	21.8
			-			
Mean	30.9	23.7	$184 \cdot$	185	23.0	23.1

#### GENERAL MORTALITY.

There were 107 deaths registered in this district during the year 1899.

Estimating the population in the middle of the year at 8,000, the death-rate was equal to 13.4 per 1,000 persons living.

In country places throughout England and Wales the mortality in 1899 was equal to 16.3 per 1,000 of population, or 0.5 per 1,000 below the mean rate in the ten years, 1889-98.

There were 15 deaths in Thakeham Workhouse, and these have been distributed among the several parishes whence each inmate came, viz., Amberley 2, Hardham 1, Pulborough 5, West Chiltington 2, Storrington 1, Warminghurst 1, Washington 2, and Findon 1.

The variations in the death-rate during the past ten years were thus recorded:—

Year.	Deaths.	D	eath-rate.		Year.	Deaths.		Death-rate.
1890	 101		12.4		1895	 124		15.5
1891	 126		15.6		1896	 99		12.4
1892	146		18.2		1897	 99	• •	$12\cdot4$
1893	 121		15.1		1898	 110		13.7
1894	 136		17.0	İ	1899	 107		13.4

Thus there have been during the above period 1,169 deaths and a mean mortality of 14.6 per 1,000. During the same period there were 1,936 births, so that the natural increase of population by excess of births over deaths was 767.

In each locality the deaths and death-rate for the past four years are here shown:—

		Deat	hs.			Death	-rate.	
	1896.	1897.	1898.	1899.	1896.	1897.	1898.	1899
Amberley Parish	12	8	7	9	$23 \cdot 1$	15.4	13.5	17:3
Pulborough Parish	15	17	27	25	8.3	9.4	15.0	13.9
Rest of Pulborough S.D.	31	29	24	23	22.0	20.6	17.0	16.3
Storrington Parish	15	21	21	22	11.9	16.7	16.7	17.5
Washington Parish	9	12	11	8	10.6	14.1	12.9	9.4
Rest of Washington S.D.	17	12	20	20	7.9	5.6	9.3	9.3
Total	99	99	110	107	12.4	12.4	13.7	13.4

In each parish the deaths in 1899 were thus distributed:—

North Stoke	1	• •	Parham	1
Amberley	9		Storrington	22
Rackham	5		Sullington	none
Greatham	none	• •	Thakeham	5
Hardham	$\dots$ 4	• •	Warminghurst	$\sim$ 2
Cold Waltham	4		Ashington	1
Wiggonholt	1	• •	Wiston	3
Pulborough	$\dots 25$		Washington	8
West Chiltington	8		Findon	8
	Total		107	

#### INFANT MORTALITY.

The *infant mortality* is here given as measured by the number of deaths under one year of age to the total number of births in the year:—

1	Births.	Deaths unde one year.	r Ratio to 1,000 Births.	Rat 1887-96.	io. 1898.
Amberley Parish	19	3	158	61	182
Pulborough Parish	48	5	104	90	114
Rest of Pulborough S.D.	39	3	77	91	55
Storrington Parish	16	4	250	65	115
Washington Parish	16	<b>2</b>	125	62	173
Rest of Washington S.D.	47	4	85	76	45
Total	185	21	113	80	98

In England and Wales the proportion of deaths under one year of age to registered births was 163 per 1,000, the mean proportion in the preceding ten years having been 151.

#### ZYMOTIC MORTALITY.

There were six deaths from zymotic diseases in the case of those which are notifiable, and there were five in the other class where the number of cases cannot be obtained. The rate of mortality was therefore equal to 1.37 per 1,000.

						*
					Cases.	Deaths.
	Small Pox	 • •	• •		none	none
	Scarlatina	 • •		• .	16	none
	Diphtheria	 	• •		15	3
	Membrano	oup			1	none
	(Typhus	 •			none	none
Š.	Enteric	 			5	3
Fevers.	{ Continued	 			none	none
Fe	Relapsing	 • •			none	none
	Puerperal	 			none	none
	Cholera	 			none	none
	Erysipelas	 	• •	• •	4	none
						-
		Total	• •		41	6

In the other class the deaths were as follows:—

Measles		• •		none
Whooping Cough		• •	• •	4
Diarrhea and Dy	sentery	• •	• •	none
Rheumatic Fever			• •	1
	To	otal		5

The Infectious Diseases (Notification) Act, 1889, came into operation on January 1st, 1890, and the number of cases notified were 36 in 1890, 34 in 1891, 21 in 1892, 43 in 1893, 41 in 1894, and 69 in 1895.

The prevalence in 1897-99, and in each quarter of 1899 of each notifiable disease is shown in the following table:—

		1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Total 1899.	1898.	1897.
Small Pox					*			
Scarlatina		1	1		14	16	10	5
Diphtheria		2	2	5	6	15	19	4
Membranous Crou	ар				1	1		
Enteric Fever	•	2		3		5	6	1
Continued Fever								
Puerperal Fever								
Erysipelas		3			1	4	4	1
v 1								
Total	• •	8	3	8	22	41	39	11

There was no epidemic prevalence of disease during the year, and the few cases that occurred, presented no special points of interest.

Each house was visited, and the usual precautions as to isolation and disinfection were taken.

#### POLLUTION OF A STREAM AT WASHINGTON.

A case under the Rivers' Pollution Prevention Act came before his Honour Judge Martineau at Worthing County Court, June 19th, when the Thakeham Rural District Council asked for an injunction against Mr. Frederick Charman, as the occupier of the Frankland Arms, Washington, to restrain him from discharging sewage into a ditch on the opposite side of the road.

Mr. Boxall said the Thakeham Rural District Council desired his Honour to make an order restraining the defendant from polluting a stream which was situated in their district. It was a matter about which there had already been a considerable amount of trouble, and he was afraid he should have to ask his decision on some rather troublesome points of law. The defendant was the occupier of a roadside inn, the Frankland Arms, on the high road between Worthing and Horsham, and defendant claimed a right to discharge its sewage into an open ditch on the opposite side of the road, and from thence into a small The stream, he admitted, was merely a country brook, but it was just the class of stream which ought to be preserved pure and unpolluted, and which by its very smallness was all the more liable to dangerous pollution. The ditch in question was made by the old Trustees of the road for the purpose of taking the water off the road, but the defendant contended that it had become a sewer, and by availing himself of this contention he was trying to get his premises drained at the expense of the Rural District Council. This contention he believed was founded on the fallacy that it was the duty of the public authority to provide sewers, and to keep and maintain such sewers in order, but he submitted that it was not the duty of the public authority to provide drainage for isolated houses, and he should ask his Honour to find that this ditch was not a sewer.

Mr. Day for the defence, submitted that the distinction between waste water and solid sewage was not material, and he also claimed a prescriptive right to drain into the ditch in question.

Several cases bearing on the matter were cited by counsel, and in the end his Honour reserved his decision.

On August 21st, his Honour delivered judgment in this case, which was heard at the June Court, and in which the plaintiffs sought to obtain an order under the Rivers' Pollution Prevention Act against the landlord of the Frankland Arms, Washington. The defendant, his Honour observed, was the tenant under brewers of a public-house called the Frankland Arms, adjoining the high road from Horsham to Worthing, and there were two drains passing from the public-house under the road into a ditch These drains appeared to have been made several the opposite side. years ago, probably before the date of the Act, and they were constructed, it would seem, for the express purpose of taking the liquid sewage matter away from the public-house to the roadside ditch. From this ditch the sewage got into a tumbling bay, and from thence into the stream in question, which it polluted. The question he had to determine was whether the defendant had committed an offence against the Act, and he had come to the conclusion that there had been an offence under Section III. There were two exemptions under this Section, but he was of opinion that the defendant was not entitled to the benefit of either of them. The defence set up was that the roadside ditch was a sewer within the meaning of the Public Health Act of 1875, as it received sewage from other houses not within the same curtilage, and that, being a sewer, it was the duty of the plaintiffs, as the sanitary authority, to see that the ditch did not pollute the stream. regard to this proposition, there was a conflict of evidence as to whether other houses sent sewage into the roadside ditch, but, even if they did, that would not, in his opinion, necessarily make the roadside ditch a sewer. In his opinion the ditch was not a sewer, but an open surface drain for the reception of surface water off the main road, and, therefore, under the control of the County Council, rather than that of the Rural District Council. From and after the 21st February, 1900, he ordered the defendant to abstain from sending either liquid or solid sewage matter into the ditch under a penalty of 40s. a day, and he also directed that the defendant should pay the costs of the proceedings. Both sides had liberty to appeal.

#### SYSTEMATIC INSPECTION.

Pulborough, was made in August last, and a Parochial Committee was appointed and met at Pulborough on September 1st, 1899, when the question of draining the lower street was discussed, and the place was inspected. There is an open brick channel on the north side of this street about 760 feet in length. Along the street there are nineteen houses built on ground rising behind to the north, where the wells are dry. Fifteen of these houses have their scullery drains connected with this open channel, whence the dirty house water and storm water pass into a culvert, and then by a short covered drain into the river Arun.

No material changes were made, and in order to prevent pollution of the wells in this sandy soil, I consider it is the best plan to use the channel for the above purposes. No closets nor urinals are in any way connected with it.

Storrington.—A house to house inspection was made in March and April at Storrington, and Mr. Grant in his report states that there are 78 pail closets, 6 trough closets, and 1 earth closet which require to be emptied weekly, 137 privies which require emptying at various intervals, and 56 water closets.

The Sanitary Inspector, Mr. E. H. Grant, reported for the year ended 31st December, 1899:—

No. of Houses visited			526
No. of Nuisances reported			65
No. of Nuisances abated without notice			87
No. of Nuisances abated with notice			7
No. of Houses disinfected	• •		17
No. Cases of Overcrowding abated			4
No. of Water Certificates granted		• •	7
No. of Samples of Water analysed		• •	9

#### SCAVENGING AND CLEANSING.

In the parish of Storrington the emptying and cleansing of cesspools, privies, earth and pail closets and the removal of house refuse (including all bottles, glass, crockery and tins), is done by a Contractor. Pail closets are emptied and cleansed, and house refuge removed weekly.

The duties of the Contractor are as follows:—

- 1. When required by the Council or their Inspector of Nuisances to remove all house refuse (including all bottles, glass, crockery, and tins), and empty, remove from, and cleanse all earth and pail closets, privies, ashpits, and cesspools for the time being within the Parish.
- 2. To perform his duties between the hours of 10 p.m. and 8 a.m. and on every Friday morning between 6 a.m. and 10 a.m., to traverse West Street, Church Street, The Square, North Street, Back Lane, Brewer's Yard, White Horse Yard, High Street, Washington Road, and School Hill, for the purpose of removing house refuse in moveable receptacles from any premises situate in or near to any of such streets.

In the parish of Pulborough a length of open drain is cleansed by contract.

#### DAIRIES AND COWSHEDS.

New regulations were made by the Rural District Council with respect to Dairies, Cowsheds, and Milk Shops, which came into force on and after the 15th day of August, 1899, and the old regulations which were adopted on April 12th, and came into force on July 1st, 1887, are now revoked.

#### BAKEHOUSES.

These are in general found to be kept in good condition. In one case however the bakehouse was in a dirty state. This was remedied on the occupier's attention being called to it.

#### SLAUGHTER HOUSES.

The slaughter houses are kept in fair condition.

#### PROCEEDINGS BEFORE THE MAGISTRATES.

A house at Coldwaltham was found to be overcrowded. Notice to abate this being ineffectual, proceedings were taken against the occupier. The Justices made an order for abatement within 21 days, which order was complied with.

A street drain in the Parish of Storrington has been cleansed and partly relaid, the cost being charged on the Parish.

Two licenses for the storage of Carbide of Calcium were granted.

#### INQUESTS.

Inquests were held in twelve cases:—Female, 26 years, coma, embolism in the brain after childbirth; female, 39 years, syncope, clot in the heart after confinement; male, 3 years, accidentally scalded; male, 26 years, suicide by cutting throat with a razor; female, 62 years, apoplexy; male, 19 years, accidental fall under a train; female, 8 years, membranous laryngitis; female, 55 years, accidentally drowned; female, 16 months, accidentally drowned; male, 60 years, suicide by hanging; male, 4 years, disease of lungs; male, 2 years, accidentally suffocated.

There was no death returned as "not certified" during the year.

### THAKEHAM RURAL DISTRICT.

Table 1.—Showing the Deaths at various groups of ages in the fifteen years, 1881-95 and in 1896-99.

Period.	At all ages.	Under 1 Year.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 & upwards.
1881-85	583	80	58	30	27	112	206
1886-90	575	85	56	23	28	166	217
1891-95	653	90	40	43	36	183	261
Per 1,000	1,000	141	85	53	50	293	378
1896	99	13	12	3	2	28	41
1897	99	21	6	3	2	25	42
1898	110	18	7	6	1	33	45
1899	107	21	12	2	6	36	30

Table 2.—Showing the Deaths from various causes in the twenty years, 1876-95, and in 1896-99.

		Ų		Croup.		F	ever	s.				,	Cough.	And the second second	Fever.		-
Period.	Small Pox.	Scarlatina.	Diphtheria.	Membranous	Typhus.	Enteric.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Co	Diarrhea.	Rheumatic Fe	Influenza.	Total.
1876-80	_	11	1		l	2			_	· —	3	4	39	11	1		73
1881-85		8	13	—	1	4			2	_	5	1	5	5	1		45
1886-90	1	5	16	_		6	_		4	_	4	3	14	9		4	66
1891-95	-	1	22	1		7					1	2	11	8	3	31	87
1896			4	1					_			2		1	_	_	8
1897			_	1			_						4	1		2	8
1898			1			2		_					3	2	_	3	11
1899		_	3			3				_			4		1	1	12
Total	1	25	60	3	2	24		-	6	-	13	12	80	37	6	41	310

### THAKEHAM RURAL DISTRICT.

Table 3.—Showing the Death-rate per 100,000 persons living from all causes, and from various causes, in different localities, durin gethe twenty years, 1876-95, and the Death-rate in 1896-99.

LOCALITY.	All Diseases.	Notifiable.	Non-notifiable.	Phthisis.	Lung Disease.	Heart Disease.
Amberley Parish	1,745	45	127	118	418	100
Pulborough Parish	1,615	86	58	153	258	170
Rest of Pulborough S.D.	1,500	51	82	145	251	171
Storrington Parish	1,454	83	41	163	288	132
Washington Parish	1,446	101	71	113	220	119
Rest of Washington S.D.	1,313	64	75	102	298	134
Mean	1,498	72	71	135	265	145
PERIOD.					1	
1876-80	1,563	43	132	148	273	134
1881-85	1,410	79	29	152	253	104
1886-90	1,389	87	63	128	276	140
1891-95	1,629	80	60	112	257	202
1896	1,237	63	37	62	162	100
1897	1,237	12	63	87	212	200
1898	1,375	37	63	100	137	262
1899	1,337	75	63	100	162	88

# (A)-Table of DEATHS during the Year 1899, in the THAKEHA

(11) - 12010 01 1	1	ORTAI	LITY 1	FROM	ALL	Caus	SES			
	-	1 1	SUBJ	OINE					1	
Names of Localities adopted for the purpose of these Statistics; Public Institutions	ages.	l year.	1	and under 15.	and under 25.	and under 65.	up-			
being shown as separate localities.	At all a	Under 1	and under		5 and 1 25.	and 65	and		Pox.	tina.
(a)	(b)	(c)	$\begin{pmatrix} a \\ - \\ (d) \end{pmatrix}$	(e)	(f) <sub>2</sub>	25	65	(i)	Small Pox.	Scarlatina.
				(0)	() /-			Under 5	02	-
Amberley Parish	7	$\frac{2}{2}$	1		_	3	1.	5 upwards.		
Pulborough Parish	20	4	4		$\frac{1}{2}$	8	2	Under 5		
	-				-			5 upwards.		
Rest of Pulborough Sub-District	20	3	2	2	1	7	5	Under 5 5 upwards.		
								Under 5		
Storrington Parish	21	4	_	_	1	9	7	5 upwards.	• • • • •	
Washington Parish	6	$\frac{1}{2}$	1		_	1	2	Under 5		
								5 upwards.		
Rest of Washington Sub-District	18	4	4	_	1	4	5	Under 5 5 upwards.		
								Under 5		
Thakeham Workhouse	15	2	-		1	4	8	5 upwards.		• • • • • •
								Under 5		
								5 upwards.		
					,			Under 5		
								5 upwards. Under 5		
								5 upwards.	••••	••••
Totals	107	21	10			26	20	Under 5		
T UTALS	107	21	12	2	6	36	30	5 upwards.		
	4		Th	e su	bjoin	ed n	umbe	ers have also to	be t	aken
Deaths occurring outside the District among persons	s							Under 5		1
belonging thereto								5 upwards.		
Deaths occurring within the District among persons not belonging thereto	3							Under 5 5 upwards.		
		1								

IAL DISTRICT, classified according to DISEASES, AGES, and LOCALITIES.

TALITY FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.																	
5	6	7	8	9	10	11	12 ·	13	14	15	16	17	18	19	20	21	22
Typhus.	Enteric or Typhoid.	Continued. A	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhæa and Dysentery.	Rheumatic Fever.	Phthisis.	Bronchitis, Pneumonia, and Pleurisy.	Heart Disease.	Influenza.	Injuries.	All Other Diseases.	Total.
		• • • • •	•••									1		••••	• • • • •	2	3
	1											1	1			1	4
			•••			••••	••••			• • • • • •	•••.	3		••••		4	8
										1	$\begin{bmatrix} 2 \\ - \end{bmatrix}$		3		1	5	12
	• • • • • •	• • • • •	• • • • •	(•••••	••••		•••••		••••					• • • • • •	1	4	5
	1			-							1	1			1	9	15
							• • • • •	3				1	• • • • • •				4
											$\frac{2}{-}$	1		1		13 ——	17
	••••	••••	• • • • •	• • • • •		••••		••••	•••	• • • • •			• • • • •	• • • • •	1	3	3
								1				1			1	 5	8
	• • • • •	• • • • • •	• • • • • •		• • • • •	• • • • •	•••••				2	1	1	• • • • •	2	4	10
																2	2
	1	• • • • •	* • • • •	• • • • •	• • • • •	•••••	•••	••••	•••••	-	1	3	2	• • • • • •	• • • • •	6	13
	•••••	• • • • •	• • • •	• • , • • •			• • • • •		• • • • •				• • • •	•••••	••••		9
		• • • • •	••••		••••			• • • • •	•••	••••			••••	••••	•••••		
	••••	• • • • •		• • • • •	• • • • •		••••		• • • • •					• • • • •	• • • • •	• • • • •	
								4				6			3	19	33
	3									1	8	7	7	1	4	41	74
nt ir	jud	ging	of th	he ab	ove	recor	ds o	f mo	rtali	ty.							
• • • • •	• • • • •		• • • • •			• • • •	• • • • •	• • • • •	••••		••••	•••	••••	• • • • •	• • • • •		
••••		• • • • •		••••		•••	• • • 1 • •	••••	••••	••••	••••		••••	••••	•••••	••••	••••

(B)—TABLE OF POPULATION, BIRTHS, AND OF NEW CASI-Officer of Health, during the year 1899, in the THAKEHA

				* 13			-			
Names of Localities adopted	I .	LATION L AGES.	Registered Births.	A I	New Cases of coming to the know					
for the purpose of these Statistics; Public Institutions			Bin	Aged under 5	1	2	3	4	5	
being shown as separate localities.	Census	Last tomid- Census dle of 1899.		or over 5.	Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Enterio or E
(a)	(b)	(c)	(d)	(e)	<u></u>	<u>~~</u>				-
Amberley Parish	525	520	19	Under 5 5 upwards.		1		• • • •	•••••	••
Pulborough Parish	1,787	1,800	48	Under 5	• • • • •	• • • • •	3		• • • • •	
				5 upwards.			8			_
Rest of Pulborough Sub-District	1,434	1,410	39	Under 5		1			• • • • •	
				5 upwards.		2	3			-
Storrington Parish	1,293	1,260	16	Under 5 5 upwards.	• • • • • •	1	1	• • • • •	••••	
				Under 5						N
Washington Parish	838	850	16	5 upwards.	• • • •		• • • • •			
Rest of Washington Sub-District	2.004	2,085	47	Under 5		1				
Rest of Washington Sub-Mistrict	2,094	2,000	#1	5 upwards.		10	1			
Thakeham Workhouse	78	75		Under 5		• • • • •				.,
Ellakolladi Wolffloddo	, 0			5 upwards.						
				Under 5						••
				5 upwards.						
				Under 5						.,
				5 upwards.						
				Under 5			• • • • • •			ı
				5 upwards.						
				Under 5						
·				5 upwards.						_
Totals	8,049	8,000	185	Under 5	• • • • •	2	3			-
AULAID	,,,,,	<b>-,</b> 000	100	5 upwards.		14	13			
										1 1

INFECTIOUS SICKNESS, coming to the knowledge of the Medical District; classified according to Diseases, Ages, and Localities.

E A	AEDI	LOCAL	Offic	CER		-	Номи	ES IN	R OF THE	SEVI	ERAL	Loca	ALITI	ES FO	OR TI	REATI	MENT	
8	9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12	13
ÆRS	5.								ns		\ 1	EVER						
Relapsing.	Puerperal.	Cholera.	Erysipelas.			Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Enteric or Typhoid.	Continued	Relapsing.	Puerperal.	Cholera.	Erysipelas.		
							• • • • •	••••	•		••••			••••	•••••			
											8		••••					
••••			1	•														
											•			-			-	
	-		3															
												H					-	
									•							-		
••••																1		
				4							. 1	1						

# EAST PRESTON RURAL DISTRICT.

pp. 89 et seq.

# EAST PRESTON RURAL DISTRICT.

The population in this registration district was 17,568 at the census of 1841 and 18,746 in 1851; owing chiefly to changes in the area, it declined to 17,423 in 1861; after which period it rose to 21,579 in 1871, to 26,364 in 1881, and to 32,394 in 1891. These figures, however, include the urban districts of Worthing and Littlehampton, which rapidly increased during this period, and Arundel with its almost stationary population.

The following figures show only the changes in the rural part of the district:—-

	1861.	1871.	1881.	1891.
Area in Statute Acres		$30,\!520$	30,696	30,637
Number of Inhabited Houses	1,355	1,467	1,662	1,805
" Uninhabited "	45	77	87	75
Population	6,716	7,675	8,025	8,692
Males	3,450	3,900	4,065	4,371
Females	3,266	3,775	3,960	4,321
Persons to a House	4.95	5.23	4.83	4.81

The following table gives the usual information as to the incidence of various diseases in each parish in this district.

In Table 3 the death-rates for various groups of diseases are given for the whole district and for each sub-district for a period of twenty years.

The mean general death-rate for the whole district was 14.8 per 1,000 in the twenty years 1876-95; there was a steady fall in the mortality from 1876 to 1890, since which time there has been a rise.

All deaths occurring in East Preston Workhouse, which is situated within the district, have been distributed to each parish whence the inmate came. The deaths in that Institution belonging to any urban district have been transferred to the town to which the persons belonged.

Table showing the Deaths from various causes in each Parish in the twenty-four years, 1876-99.

7-											
	*	səssəsiQ IIA	378	50	383	84	29	216	08	15	96
	'əsı	səsiU treəH	32	7.0	34	70	9	20	13	_	12
	Lung Disease.			ಣ	53	12	133	99 99	12	ಣ	4
		Phthisis.	භ	9	28	70	41	20	ಹ	67	6
le.	•	Rheumatic Fever,	_		<del></del>				B Baraner	g parameter and the second	
tifiab		Distribus.	$\infty$		19	4	,—1	$\infty$	<del>,</del>		
Non-notifiable.		gniqoohW Gough,	$  \infty  $		-1			-	.		70
Z	•	Measles.	9	Į	4		,	ಣ		-	ಣ
		Erysipelas.			<del></del>						67
		Puerperal.		1			1	Ť			
	Fevers.	Continued.				1	ļ				
ole.	Fev	Enteric,	12	<del>,</del>	16	,—			37	1	
Notifiable.		Typhus.		•							
N	S	Membranou. Group.			,1			-		l	1
		.sirəhthqiU	$\infty$	ಾ	9		6.1	10	<del>,</del>		<del></del>
		Scarlatina.	6	,1	70	-		-	<del></del>	1	-
	(	Small Pox.			ļ	1			-		
		ı	•	•	:	•	•	•	:	•	:
		Parish.	Broadwater	Heene (1876-90)	West Tarring	ham	Durrington	$g_{\Gamma}$	su	ston	East Preston
			Broa	Heer	West	Clapham	Durr	Goring	Ferring	Kingston	East

317	563	135	91	56	62	83	88	15	88	35	94	90	29	3,108
အ စာ	41	19	13	က	12	<b>G</b>	∞		<u></u>	∞	9	10	10	315
54	104	21	10	2	10	<b>G</b>	e:	<del></del>	12	က		4	10	465
24	28	<del>-</del>	<b>∞</b> ,	67	4	9	10		4		H	4	2	261
-	and the second s			1	-		l				<del>,</del>		1	က
<u></u>	56	- Control of the Cont			63		-	<del>,</del>			<del></del>			82
9	13	4	63			4		.		<del></del> 1	63			56
	က			1		-			-			1		26
						t	<b>A</b> 1		t	t		1		
					-									1
													-	<u>c</u> 2
									-				<del></del>	
<del></del>	4				ಣ					-	ಣ			44
						1		1						
	-	,												4
70	11		ಣ	<del>, - 1</del>	<del></del> 1	4	-					<del></del>		58
က	ବଦ	<del>  </del>	1	<del></del> 1	<del></del> 1	<del>,                                    </del>					1			31
				1					1	1		1		
•	•	•	•	•	•	•	•	6	•	•	•	•	•	•
•	•	•	•	•	•	(N.)	•	(N.)	:	$\cdots$ du	•	:	·	•
Angmering	Lyminster	Rustington	Climping	Ford	Tortington	Lyminster (N.)	Poling	Angmering (N.)	Patching	Warningcamp.	Burpham	South Stoke	Houghton	Total
				·										

#### BIRTHS AND BIRTH-RATE.

During the year 1899, the births of 290 children were registered; of these 135 were male, and 155 were female.

Estimating the population in the middle of the year at 10,000, the birth-rate was equal to 29.0 per 1,000 persons living.

The births and birth-rate during the past ten years were thus recorded:—

Year.	Births.	В	irth-rate.	Year.		Births.	1	Birth-rate.
1890	 204		23.4	1895		278		30.2
1891	 244		28.0	1896		284		29.8
1892	 204		23.3	1897		274		28.0
1893	 260		29.5	1898	á a	271		27.5
1894	 269		30.0	1899		290		29.0

The mean number of births is 258, and the mean birth-rate is 27.9 per 1,000 of population.

In England and Wales the birth-rate during the year was 29.3 per 1,000 persons living, a rate 1.0 per 1,000 below the mean rate in the ten years, 1889-98, and lower than in any other year on record.

The following table shows the births and birth-rate in each locality during three periods:—

	Birth-rate.		Births.		Birth	-rate.
	1877-84.	1893-97.	1898.	1899.	1898.	1899.
Worthing Sub-District	30.8	31.2	121	117	30.2	28.5
Littlehampton Sub-District	30.9	29.8	93	109	25.3	29.5
Arundel Sub-District	$29 \cdot 9$	26.1	57	64	26.3	29.1
Mean	30.6	29.5	271	290	27.5	29.0

## GENERAL MORTALITY.

There were 185 deaths registered in this district during the year 1899, but from this number must be deducted the deaths of 26 persons in East Preston Workhouse belonging to urban areas, outside this district. Of these 26 persons, 17 came from Worthing, 6 from Littlehampton, and 3 from Arundel. There were 3 deaths in Worthing Infirmary of 9 persons belonging to this district, making the total 162.

There were also 16 other deaths in the Workhouse, and these have been distributed among the several parishes whence each inmate came, viz.:—West Tarring 1, Clapham 1, Durrington 1, Ferring 1, East Preston 3, Angmering 4, Lyminster 1, Climping 1, Poling 1, Patching 1, and Warningcamp 1.

The above numbers include the deaths of 3 male adults in Rustington Convalescent Home.

Estimating the population in the middle of the year at 10,000, the death-rate was equal to 16.2 per 1,000 persons living.

In country places throughout England and Wales the rate of mortality in 1899 was equal to 16.3 per 1,000 of population, or 0.5 per 1,000 below the mean rate in the ten years, 1889-98.

The variations in the death-rate during the past ten years are here shewn:—

Year.		Deaths.	D	eath-rate.		Year.	Deaths.	J	Death-rate.
1890		$1\overline{2}2$		14.0	1	1895	 164		17.8
1891		123		14.1		1896	 156		16.4
1892	. e	143		16.3		1897	 145	• •	14.8
1893		145		16.5		1898	 143		14.5
1894		124		13.8	1	1899	 162		16.2

The mean number of deaths is 143, and the mean-death rate is 15.4 per 1,000. During the decade there were 2,578 births, so that the natural increase of births over deaths was 1,151.

The following table shows the deaths and death-rate in each locality during the past four yeaes:—

		Deaths.				Death-rate.				
	1896.		1898.	1899.	1896.	1897.	1898.	1899.		
Worthing S.D	 60	49	60	74	15.8	12.4	15.0	18.2		
Littlehampton, S.D.	 69	69	55	65	19.4	18.7	14.9	17.6		
Arundel Sub-District		27	28	23	12.5	12.4	12.9	10.5		
Total	 156	145	143	162	16.4	14.8	14.5	16.2		

In each parish the deaths in 1899 were thus distributed:—

Broadwater		12		Climping	4
West Tarring		41			2
Clapham		4		Tortington	5
Durrington		4		Lyminster (north)	1
Goring		9		Poling	2 .
Ferring		4		Angmering (north)	1
Kingston		1	• •	Patching	4
East Preston		7		Warningcamp	1
Angmering (south)		16		Burpham	5
Lyminster (south)		26		South Stoke	3
Rustington		9		Houghton	1
	${f T}$	otal		162	

#### INFANT MORTALITY.

The *infant mortality* is here given as measured by the number of deaths under one year of age to the total number of births in the year:—

		Deaths under	Ratio to	Rat	io.
	Births.	one year. 1	,000 Births.	1887-96	1898.
Worthing Sub-District	117	20	171	88	99
Littlehampton Sub-District	109	12	110	101	161
Arundel Sub-District	64	2	31	72	70
*	-				
Total	290	34	117	87	111

In England and Wales the proportion of deaths under one year of age to registered births was 163 per 1,000, the mean proportion in the preceding ten years having been 151.

#### ZYMOTIC MORTALITY.

There were seven deaths from zymotic diseases in the case of those which are notifiable, and there were 11 in the other class where the number of cases cannot be obtained.

Adding the two classes together, there is a total of 18 deaths with a zymotic mortality of 1.80 per 1,000.

						Cases.	Deaths.
	Small Pox		• •			$\mathbf{none}$	none
br .	Scarlatina			• •	• ,	29	1
	Diphtheria		• •	• •		10	<b>2</b>
	Membranov	is Cr	oup			none	1
	(Typhus					none	none
<b>3</b> 2	Enteric					17	2
Fevers.	$\{ {f Continued} \   \ $			• •		none	none
$\mathbf{F}$	Relapsing		• •	• •		none	$\mathbf{none}$
	Puerperal			• •		none	none
	Cholera		• •			none	none
	Erysipelas			• •		13	1
			Total			69	- <b>7</b> .

The deaths in the other classes were as follows:-

Measles		 none
Whooping Cough		 4
Diarrhea and Dysente	ery	 6
Rheumatic Fever		 1
	Total	 11

The Infectious Disease (Notification) Act, 1891, came into operation in this district on March 1st, 1891, and on the same day the Infectious Disease (Prevention) Act, 1890, also took effect.

On March 21st, 1891, the Public Health Acts Amendment Act, 1890, Part III, came into operation.

The prevalence in 1897-99, and in each quarter of 1899 of each infectious disease is shown here:—

					Total		
	1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	1899.	1898.	1897.
	14		6	9	29	48	6
			6	4	10	11	7
ıp							
• • •	1	5	5	6	17	17	15
	******					1	1
	4	3	2	4	13	3	8
					***********		
	19	8	19	23	69	80	37
	ip  	$ \begin{array}{cccc}  & & & \overline{} \\  & & & \phantom{a$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

There was no epidemic prevalence of any infectious disease during the year, and the following scheme shows pretty clearly the parishes and the months in which three of the chief diseases were met with.

Isolation of the patient, the disinfection and cleansing of each house seemed to prevent the spread of the disease, and in each case the children in the infected house were not allowed to go to school.

	;	Scai	RLA!	rina	•			I	DIPE	ITHI	ERIA	L.	E	NTE	RIC	FE	<b>VE</b> R	•
	West Tarring.	Durrington.	East Preston.	Wick (Lyminster)	Broadwater.	Angmering.	Houghton.	Broadwater.	West Tarring.	Durrington.	Tortington.	South Stoke.	Warningcamp.	Broadwater.	West Tarring.	Wick (Lyminster).	Burpham.	Goring.
Jan	1	2	1	1			-						1					—
Feb				7														
March	1		1															
April																		
May														3	1			
June														1				
July					1		*	1	1					1		1	<del></del>	
Aug.					-					1						1		
Sept.				4	1				3				.—				2	
Oct.	2			1		1	1				2	1		1		3		1
Nov.						3					<b>2</b>							1
Dec.					1												<del>,</del> ',	

#### BROADWATER.

A Local Government Board inquiry was held by Colonel Durnford, R.E., on July 8th, 1898, on the application of the East Preston Rural District Council, to borrow £3,500, for works of sewerage for the parish of Broadwater.

Broadwater had a population in 1891 of 1,016, but at the present The assessable value for sanitary time it is estimated at 1,240. purposes was £5,411, and the area 1,756 acres. It was intended that the scheme should consist of a system of stoneware pipes laid in the main street from the Green to Ham Lane and down Ladydell Road, where a connection would be made with the Worthing main sewer. Subject to the approval of the Local Government Board, an agreement had been entered into with the Worthing Corporation for a connection with their sewer on the payment of a certain rental. This rental would vary according to the proportion of the respective populations, but for the first five years, at any rate, it would be £100 a year. were certain provisions as to the actual carrying out of the work, the Corporation undertaking to lay the sewer south of the parish boundary, the District Council paying the cost. The works to be carried out by the District Council were all those inside the parish, and the Corporation would carry out those that were outside.

The scheme had been before the parish for several years, and it was thought that the best means of testing the feeling was to take a poll. This was done, with the result that by a large majority drainage was approved.

In February, 1897, acting upon the opinions of the ratepayers, the District Council proceeded with the scheme. The estimate was slightly increased after suggestions made by the Parochial Committee for local reasons. The first estimate was £2,779, and that amount had now been increased to £3,026, which would cover the cost of the works, including those to be done by the Corporation.

Mr. C. O. Blaber prepared a scheme for effectually draining the village from Broadwater Green through the main street, thence along Ham Line and under the railway to the Worthing main sewer. The drain to be made of stoneware pipes with Stanford joints, and with the usual manholes and ventilating shafts. Three flushing tanks were provided and all the manholes can be used for flushing purposes. An iron pipe was used to carry the sewer under the railway.

Tenders were sent in for the work, and on September 13th, 1898, the District Council, on the recommendation of the Broadwater Parochial Committee, accepted Messrs. Cook's tender for £2,860, viz. £1,980 for No. 1 portion, and £880 for No. 2. portion.

The works of sewage were soon afterwards commenced and they were completed in the spring of 1899. In May notice was sent to each owner or occupier within the contributory place that he was entitled to cause his drains to empty into the sewers recently laid.

A great many houses were at once connected, and the work has gone on in a satisfactory manner.

## LITTLEHAMPTON AND WICK.

In my last report I printed the Order made on November 25th, 1898, by the County Council of West Sussex for transferring part of the parish of Lyminster, known commonly as

Wick, to the Littlehampton Urban District. Several petitions against this order were sent to the Local Government Board from the East Preston Rural District Council, from the Lyminster School Board, from private landowners, and others. The main contention was that the Order included a larger area than that which formed the subject of the inquiries, held by the Committee of the County Council on September 30th, 1897, June 16th, 1898, and September 8th, 1898, and that there was no power for such land to be included without the owners having had due notice of the extension, as otherwise they could not be represented.

On May 30th, 1899, a Local Government Board inquiry was conducted by Colonel W. R. Slacke, R.E., into the objections to the County Council Order transferring Wick, for all but ecclesiastical purposes, from the East Preston Rural District to the Littlehampton Urban District. Three inquiries were held by a Committee of the County Council before the Order was framed, and this inquiry by one of the Local Government Board's Inspectors was brought about by a petition received from the East Preston Rural District Council protesting against the large area which Wick would, under the terms of the County Council Order, carry with it to the urban district of Littlehampton. The Littlehampton Urban Council disagreed with the proposals of the Order affecting education, and petitioned against it, and the Rev. Gerald Moor petitioned against it on behalf of the Lyminster School Board. These protests, however, were stated to be invalid. Mr. A. Heasman stated the views of the East Preston Rural Council. While approving of the transfer, his Council did not agree to the area proposed in the County Council order, which they considered neither fair nor right. He pointed out that the grounds which the Rural District Council had in first asking the County Council to annex Wick to Littlehampton were that Wick was very thickly populated, that its sanitary condition required immediate attention and that the only practicable way of draining was into the Littlehampton sewers. Had the Rural District Council undertaken the sanitation of Wick, the whole parish of Lyminster would have had to bear the expense, and as Lyminster, which had an acreage of 2,667, was, with the exception of Wick (about 363 acres), a purely agricultural parish, the ratepayers in a large portion of the parish could not be called upon to pay for the sanitation of Wick. They considered that the area first suggested, and marked red on the map was right and fair, and it was contended by his Council that the County Council Committee exceeded the powers which they possessed by the Act of Parliament when they threw aside the two areas which had hitherto been before them, and arrived at one very different. If the County Council Committee were not satisfied with the areas suggested they should have recommended the County Council to make no order. proposed alterations in the boundary were never before the Council, and no prima facia case was ever made out for it, as it should have been; it was never advertised in the district, and, with the exception of himself, who was a county councillor and knew a couple of days beforehand no member of the Rural Council knew of the alterations till it had been adopted by the County Council. The Council considered it was unfair to throw an area of agricultural land, larger than Littlehampton, The Rural District Council, under such arrangeunder urban rule. ment, would be a considerable loser in rateable value. They had something like 72 miles of roads to look after, and a rateable value of about £63,000. It was necessary, to meet their expenses, that they should retain as much property as they could. The additional land which it was proposed to hand over with Wick to Littlehampton represented a rateable value of £3,000 to the Rural Council; whereas to the Urban Council it would only mean an addition of £750 to the rateable value.

Mr. Raven then laid before the Inspector the objections of the Lyminster Parish Council, who were not represented at the last inquiry, and for whom no statement was made. He contended that the alteration in the proposed area was made without some of the people knowing anything whatever about it. He would state a case. A meeting was called to consider a proposal to alter an area. There was a definite proposal to take in a hundred acres. Then it was found convenient to recommend the taking in a thousand acres, and the County Council said, "Very well, we will make such an alteration." He submitted that no notice was given to the people affected by the enlargement of the area, and that, therefore, it was ultra vires under the Act of Parliament for the County Council to make that Order. As regards the object of the order, he supposed none would deny that Wick needed draining, and he argued that, for that purpose, instead of the scheme which had raised objections among every public body and every landowner in the district, an arrangement should have been come to between the Rural and Urban authorities for the extension of the Littlehampton Council's sewer into Wick, so that the sewage might drain into it. He believed that the Littlehampton Council would have been fully prepared to do their part in a scheme of that nature, seeing that it was to their interest to ward off epidemics which might arise from bad sanitation; and the cost of extending the sewer and erecting a pumping station would have been borne by the whole parish. The whole population of Lyminster was something like 1,600. From this population it was proposed to take some 1,350 into the urban district of Littlehampton. This constituted the proper portion of the parish. On the other hand, the northern part of Lyminster, which had a population of about 250, was a non-residential area with the exception of the residences of gentlemen and owners of property, who were all practically well-to-do. Running through the northern part of the parish, too, was a railway line, which of course was heavily rated, and those rich people in the north of Lyminster, who had no poor to support, would have no rates whatever to pay. He also pointed out that if the County Council Order were to remain good Littlehampton might form Wick into a separate drainage district and charge the whole of the expense upon its poor population; whereas, he contended, the expense should be distributed among rich and poor equally. Nothing could be more monstrously unfair than that Wick should have to bear the whole expense—and Wick had no security that this method would not be adopted.

Mr. Yorke said he was Chairman of the Littlehampton Urban Council when they received a delegation from the Lyminster Parish Council, asking if they would consent to the sewage of Wick being allowed to go into the Littlehampton main. The Littlehampton Authority at first opposed the suggestion, as they did not think their sewer sufficiently large to take the extra drainage. The Urban Council now felt, however, that with the proposed larger area they would be doing right in taking over the control of Wick, the Rural District Council having so utterly neglected their duty in the matter.

Mr. Raven, on behalf of the Lyminster School Board, thought he should be able to show that it was absolutely an afterthought on the part of the County Council Committee to interfere with the school arrangements, and that they never really considered the matter till the order was decided upon—he would not say actually made. He complained that the County Council had led the Education Department to believe that there was no opposition to the amalgamation of the schools and that the Lyminster School Board were quite willing to consent to their own extinction.

Mr. E. B. Wannop, on behalf of the Littlehampton School Board, said that the sole object of the Order was not the benefit of Wick in particular, but for the benefit of the large landowners adjoining who wished to place upon Littlehampton the expense of putting Wick in a sanitary state, and release the large area of land from any expense whatever; he submitted that a County Council had no power to dissolve a School Board without the consent of the Board itself. The Littlehampton Board had never consented to the change proposed, and had always opposed it; another objection on the part of the Littlehampton Board was that they would be saddled with a debt of £3,000 on schools, which they did not want, and which they strongly objected to have. It would increase the Littlehampton School Board rate by about  $2\frac{1}{2}$ d. in the £. They also objected that the northern part of Lyminster should go free from paying towards the cost of the Major Mostyn, on behalf of the Duke of Norfolk, objected to both the alternative areas which the Rural Council favoured, but not to the boundary which was defined in the County Council's Order.

The Local Government Board decided that the objections were valid, and another inquiry will now have to be held.

#### ISOLATION HOSPITAL AT SWANDEAN.

After much discussion an agreement was executed on September 13th, 1899, between the East Preston Rural District Council, and the Worthing Corporation, for the admission of persons suffering from infectious disease in the parishes of Broadwater, West Tarring, Durrington, Goring, Ferring, and Clapham, on certain conditions.

It has also been provided that pauper cases may be admitted to Swandean, when it is deemed necessary, and then the charges for medical attendance, necessaries, nursing, and maintenance, will be defrayed by the Guardians. It was also arranged that admission to Swandean should be given only on the order of the Medical Superintendant of the Hospital.

During the year, 1899, six cases from the rural district were admitted to Swandean from Broadwater; four in one family were paid for by the Guardians, one from private sources, and one by the Rural District Council.

# SYSTEMATIC INSPECTION.

The following is a list of routine work during the year 1899, as recorded in the books of the Sanitary Inspector, Mr. Vail:—

No. of Houses visited			475
No. of Nuisances reported			102
No. of Nuisances abated without notice			77
No. of Nuisances abated with notice			25
No. of Houses cleansed and limewashed			27
No. of Houses disinfected		• •	31
No. of Water Certificates granted			47
No. of Wells cleaned			6
No. of New wells			13
No. of Wells closed			1
No. of Samples of Water analysed	• •		4
No. of Samples of Water polluted		• •	1
No. of Cases of Overcrowding abated		• •	0
No. of Privies altered			4
No. of Drains re-laid			5

# SCAVENGING AND CLEANSING

Rustington is a parish containing a population in 1891 of 434 persons living in 91 houses scattered over a large area. Since that date about 30 new houses have been erected and agricultural land is coming in for building purposes. At the east end of the parish there is an old occupation road, known as Broadmark Lane, running from north to south and leading to the sea where it ends. This lane is 900 yards in length, and until lately there were five old cottages here. The lane is nearly level, and it lies very low, the height above o.p. varying from 13 to 24 feet, so that when there is a high tide the water in the ditches cannot get away.

On the east side, seven new houses (villas) have been erected and at right angles to them, six more have been, or are being built. frontage to these seven houses equals 70 yards, and the depth equals 50 yards, so that there is ample garden ground to each dwelling. On such a garden, it would be easy for each occupier so to use any house refuse as to make it profitable. Ashes should be sifted, and the finer part utilised on the soil; leaves, vegetable refuse, &c., should rot down so as to make leaf mould; broken crockery, tins, &c., might be stored in a away at intervals. and taken corner, Those who to a country life readily adopt such methods; those are used to a town life cannot easily adapt themselves to their new surroundings when they retire into the country; hence complaints are now and then heard of the necessity of by-laws for scavenging and cleansing—by-laws which are much needed in populous areas where there is no space around a dwelling suitable for dealing with the refuse, but not needed in an open area where nearly everything can be profitably utilised on the soil, and where an ample leisure may be turned to some useful purpose. I consider that in Broadmark Lane, there is no need at present to adopt any by-laws for the above purposes.

The scavenging of house refuse at Broadwater and West Tarring, and the emptying of privies and cesspools at Broadwater, and in that part of West Tarring which is outside the sewage area, has been carried out satisfactorily by the contractors in each parish.

### WATER SUPPLY.

No change has taken place during the year; most of the houses in Broadwater and West Tarring are supplied from the Worthing Waterworks.

### BAKEHOUSES.

The fifteen bakehouses have been frequently inspected, and they have been well kept.

### SLAUGHTER HOUSES.

These are six in number, and they have been kept in good order but they require frequent inspection to see that no nuisance arises.

## COWSHEDS AND DAIRIES.

The twenty-six cowsheds have been regularly inspected and kept clean; no disease of any animals was recorded during the year.

#### LODGING HOUSES.

There is no Common Lodging House in the District.

### PROCEEDINGS BEFORE THE MAGISTRATES.

No legal proceedings were taken during the year.

## INQUESTS.

Inquests were held in twelve cases:—Male, 68 years, found drowned on the sea-shore; female, 7 years, membranous croup; male, 77 years, syncope, from fatty degeneration of the heart; male, 39 years, accidentally struck by a train; female, 48 years, syncope, from fatty degeneration of the heart; male, 3 months, convulsions due to chronic

dyspepsia; male, 7 weeks, mal-nutrition from inability to assimilate food; female, 75 years, heart disease and bronchitis; female, 25 years, accidentally drowned while bathing in the sea; male, 62 years, injuries sustained through accidentally falling from a load of hay; female, 39 years, valvular disease of the heart; male, 17 years, inflammation of the brain.

There were three deaths returned as "not certified" during the year:—Male, 4 days, premature birth, inanition; female, 12 months, convulsions due to teething; female, 59 years, heart disease.

# EAST PRESTON RURAL DISTRICT.

Table 1.—Showing the Deaths at various groups of ages in the fifteen years, 1881-95 and in 1896-99.

Period.	At all ages.	Under 1 Year.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 & upwards.
1881-85	603	100	53	<b>3</b> 5	28	185	202
1886-90	566	82	50	30	34	149	221
1891-95	699	118	69	47	<b>3</b> 9	191	235
Per 1,000	1,000	161	92	60	54	281	352
1896	156	27	18	16	8	32	55
1897	145	27	15	5	8	33	57
1898	143	30	9	7	5	40	52
1899	162	34	11	8	8	43	58

# EAST PRESTON RURAL DISTRICT.

Table 2.—Showing the Deaths from various causes in the twenty years, 1876-95, and in 1896-99.

				Croup.		F	ever	s.					Cough.		Fever.		hand the comme
Period.	Small Pox.	Scarlatina.	Diphtheria.	Membranous	Typhus.	Enteric.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Co	Diarrhæa.	Rheumatic Fe	Influenza.	Total.
1876-80	_	11	8	_	_	9	1		-	_	2	4	8	19	_	_	62
1881-85		8	17	_		1			1		2	9	8	7	2		55
1886-90	-	5	13	_		1		_	1		_	1	17	16			54
1891-95	_	1	9	2		27	_	_			2	5	9	15		20	90
1896	_	2	8	1		2		_			_	6	5	4		3	31
1897	—	_	_	-	_	1			-	_	—	1	4	5		1	12
1898		3	1	_	_	1			_			_	1	10	_	4	20
1899	_	1.	2	1	_	2	_		_		1		4	6	1	9	27
Total		31	58	4	-	44	1		2	_	7	26	56	82	3	37	351

# EAST PRESTON RURAL DISTRICT.

Table 3.—Showing the Death-rate per 100,000 persons living from all causes, and from various causes, in different localities, during the twenty years, 1876-95, and the Death-rate in 1896-99.

LOCALITY.	All Diseases.	Notifiable.	Non-notifiable.	Phthisis.	Lung Disease.	Heart Disease.
Worthing Sub-Distric	et 1,571	108	79	. 135	240	140
Littlehampton Sub-I		53	81	138	250	123
1						
Arundel Sub-District	1,280	41	38	92	154	131
Mean	1,483	72	71	128	223	134
į !				+		
PERIOD.	j I					
1876-80	1,645	80	80	176	209	148
1881-85	1,452	70	63	130	201	149
1886-90	1,286	46	79	100	209	128
1891-95	1,550	91	64	106	275	111
1896	1,638	136	158	168	210	210
1897	1,480	10	102	133	184	214
1898	1,452	51	111	61	223	233
1899	1,620	70	110	120	240	260

# (A)-Table of DEATHS during the Year 1899, in the EAST PRESTO

(A)—Table of DEA	TH	s au	ırıng	g the	Ye	ar 1	899,	in the EASI	PA	כוש.	
	Мс			FROM OINE			ES				
Names of Localities adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	At all ages.	Under 1 year.	l and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and up- wards.	₹	Small Pox.	Scarlatina. 10	
(a)	(b)	(c)	(d)	(e)	( <i>f</i> )	(g)	(h)	(i)	Sm	Sca	1
Worthing Sub-District	67	20	4	5	2	16	20	Under 5 5 upwards.			
Littlehampton Sub-District	54	11	4	3	2	17	17	Under 5 5 upwards.		1	•
Arundel Sub-District	20	2	3		3	5	7	Under 5 5 upwards.			
East Preston Workhouse	42	3			1	11	27	Under 5 5 upwards.			•
Rustington Convalescent Home	2					2		Under 5 5 upwards.			•
*								Under 5 5 upwards.			
								Under 5 5 upwards.			
•								Under 5 5 upwards.			
								Under 5 5 upwards.		• • • •	••
								Under 5 5 upwards.	• • • •		
Totals	185	36	11	8	8	51	71	Under 5 5 upwards.			
			Th	e su	bjoin	ed n	ımbe	rs have also to	be ta	aken	in
Deaths occurring outside the District among persons belonging thereto				!		2	1	Under 5 5 upwards.			
Deaths occurring within the District among persons not belonging thereto	26	2				10	14	Under 5 5 upwards.			

URAL DISTRICT, classified according to Diseases, Ages, and Localities.

OI	RTAL	ITY ]	FROM	SUB.	JOINI UN	ED CA	AUSES Five	, рі Е ҮЕ	STING ARS (	uish of A	ING GE.	DEAT	CHS OF	Сні	LDRE	N		
4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Croup.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhosa and Dysentery.	Rheumatic Fever.	Phthisis.	Bronchitis, Pneumonia, and Pleurisy.	Heart Disease.	Influenza.	Injuries.	All Other Diseases.	Total.
									3	5			3		2		10	24
1		1									1	2	6	8	6	2	15	43
									1			• • • • •	2				11	15
							1					8	5	7	1	2	15	39
••			• • • • •		<b>,</b>				• • • •		- • • • • •		1			• • • • •	4	5
		1										1	4	6			3	15
• •										• • • • • •			1	• • • • • •	· • • • • .	•••	2	3
										l ———		6	3	7			22	39
).														• • • • • •		• • • • •		
```														2				2
							• • • •					*				••••		
•															• • • • •			••••
									4	5			7		$\overline{2}$		27	47
		2					1			1	1	17	18	30	7	4	55	138
ou	nt ir	ı jud	ging	of the	he al	oove	recor	ds o	f mo	rtalit	y.							
		••••		••••	• • • • •	•••	•••••			• • • • •	• • • • •	• • • •	1	••••	••••	• • • • •	2	3
													1				1	2
									••••	•••••	••••	5	1	4	;		14	24

(B)—TABLE OF POPULATION, BIRTHS, AND OF NEW CASES
Officer of Health, during the year 1899, in the EAST PRESTOR

Names of Localities adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.  (a)  (b)  (c)  (d)  (e)  (e)  (e)  (for institutions being shown as separate localities.  (a)  (b)  (c)  (c)  (d)  (e)  (for institutions or cver 5.  (e)  (for institutions being shown as separate localities.  (a)  (b)  (c)  (c)  (d)  (d)  (e)  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.  (for institutions or cver 5.				<b></b>							1
Statistics : Public Institutions being shown as separate localities.	Names of Localities adopted			rths.	Agod	COMI					
Deling shown as separate localities.	for the purpose of these		Wat:	d Bi	under 5	1.	2	3	4	5	6
Worthing Sub-District       3,261       4,100       117       Under 5       0       1       0       1       0       1       0       1       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0        0       0       0       0       0       0       0       0       0       0       0       0       0       0       0        0       0       0       0       0       0       0       0       0       0       0       0       0       0       0        0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <td>being shown as separate</td> <td></td> <td>mated tomid- dle of</td> <td>Registered</td> <td></td> <td>lall Pox.</td> <td>ırlatina.</td> <td>phtheria.</td> <td>unbranous  </td> <td>FEV snyd</td> <td>J.C</td>	being shown as separate		mated tomid- dle of	Registered		lall Pox.	ırlatina.	phtheria.	unbranous	FEV snyd	J.C
Morthing Sub-District   3,261   4,100   117   5 upwards.   9   5   7	(a)	(b)	<b>(</b> c)	(d)	(e)	Sm	Sc	Ü	Cre	Ty	En Fu
Littlehampton Sub-District 3,285 3,500 109 5 upwards. 14	Worthing Sub-District	3,261	4,100	117	• • • • • • • • • • • • • • • • • • • •	••••	9			•••••	$\frac{1}{7}$
Arundel Sub-District 1,984 2,200 64 5 upwards. 1 3 3 3 3	Littlehampton Sub-District	3,285	3,500	109	• • • • • • • • • • • • • • • • • •				• • • •		5
East Preston Workhouse 162 170 — Under 5 5 upwards.  Rustington Convalescent Home — 30 — Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.	Arundel Sub-District	1,984	2,200	64		,		3			3
Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.   Under 5   5 upwards.	East Preston Workhouse	162	170		Under 5		,	••			
Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.	Rustington Convalescent Home		30		Under 5	• • • •	••••	• • • • •		• • • • •	1
Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.					Under 5					• • • • • •	
Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.					Under 5		• • • •	-			
Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.											
5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.											
Under 5 5 upwards. Under 5 5 upwards.							•				• • •
Under 5 5 upwards.											
5 upwards.					5 upwards.						
Under 5 5 2								• • • • •			
Totals 8,692 10,000 290 5 upwards. 24 8	Totals	8,692	10,000	290	• • • • • • • • • • • • • • • • • • • •						

INFECTIOUS SICKNESS, coming to the knowledge of the Medical ral District; classified according to Diseases, Ages, and Localities.

SS IN THE		Loc ICAL	ALITY Offi	7, ČER			N Hom	UMBE ES IN	ER OI	f suc e sev in Í	H CAVERAL	SES LOC	Remo Calit Hose	OVED IES F PITAL	from or T.	THE	IR MENT	
8	9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12	13
FEVEI	RS.								8			EVE						
Relapsing.	Puerperal.	Cholera.	Erysipelas.			Small Pox.	Scarlatina.	Diphtheria.	Membranous   Croup.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	l'uerperal.	Cholera.	Erysipelas.		
		••••		• • • • •	• • • • •	• • • • • •		• • • • • •			1				Н	• • • • •	• • • • •	
	-		4					1			3							
			7	• • • • •	• • • • •	••••	• • • • •	• • • • •	• • • • •	••••				• • • • •		• • • • •		
		• • • • •	•••••	••••		• • • • •	• • • • •	••••	• • • • • •	• • • • •			• • • • • •	• • • • •	• • • • •	• • • • •	• • • •	
			$-\frac{2}{-}$															
		C • • • •	• • • • • •	• • • • •		••••	• • • • •	• • • • •		••••	••••			• • • • • •	• • • • • • •		• • • • • •	
											•••••	••••	• • • • •			• • • • • •		
		•••••		••••		• • • • •									••••			
														-				
• • • • •	1 • • • •			••••		•••••	• • • • • •	••••		. • • •	• • • • • •	• • • • •	• • • • • •	•••••		• • • • • • • •		
				• • • • •			•				• • • • • • •	••••						
	• • • • • •							• • • •   •	• • • • • •		4.	• • • •		• • • • •				
			• • • • •				• • • •			••••	••••	• • • • • •			• • • • •	• • • •		
											1							
••••	.,,,,	•••••	13	••••		• • • •	1	1			3							
											1				174			paratona 4

# MIDHURST RURAL DISTRICT.

pp. 111 et seq.

# MIDHURST RURAL DISTRICT.

The population in this registration district was 13,325 at the census of 1841 and 13,599 in 1851; there was then a decline owing to alterations in the area, and from 1861 onwards there has been a steady increase, as is shown in the following statement.

The figures here given relate to the present rural sanitary area which is co-extensive with the registration district:—

Area in Statute Acres	1861.	$^{1871.} \\ 65,695$	1881. 66,571	1891. 66,744
Number of Inhabited Houses	2,473	2,621	2,801	2,919
" Uninhabited "	88	79	136	188
Population	12,608	13,042	13,965	14,236
Males	6,545	6,767	7,185	7,216
Females	6,063	6,275	6,780	7,020
Persons to a House	5.10	4.97	4.98	4.84

The following table gives the usual information as to the incidence of various diseases in each parish in this district.

In Table 3 the death-rates for various groups of diseases are given for two large parishes and for each sub-district for a period of twenty years.

The mean general death-rate for the whole district was 14.9 per 1,000 in the twenty years 1876-95; there has been very little variation in the general mortality; consumption has apparently decreased, and lung diseases have increased.

All deaths occurring in Easebourne Workhouse have been distributed to each parish whence each inmate came.

99

 $\tilde{56}$ 

648

159

146

152

2

110

405

262All Diseases. 15 39 65 36 28 13 5 8 Heart Disease. Table showing the Deaths from various causes in each Parish in the twenty-four years, 1876-99. 188 24 84 Lung Disease. 36 233 10 33 27 36 9[ 52 39 30 10 9 -1 Phthisis. Fever. **C**1 03 Non-notifiable. Rheumatic 9 **C**7 4 Diarrhæa. Cough. 10 10 7 9 07 4 33 Myooping 01 3 9 **63** Measles. 0 01 Erysipelas. 0.1 **C**3 Puerperal. Continued Fevers, 10 9 **©**1 70 Enteric, Notifiable. Typhus. Croup. Membranous ೧  $\infty$  $\infty$ ,--9 Diphtheria. 9 Scarlatina. 0.1 C) Small Pox. West Lavington East Lavington PARISH Woolbeding Easebourne Tillington Lodswort Heyshott Graffham Cocking Midhurst Selham

45	37	239	387	112	က	200	174	149	102	63	329	200	75	51	34	98		4,988
∞	4	27	49	14	67	21	17	20	6	9	24	56	G	<u>o</u>	23	2		528
10	ಹ	33	56	14	4	21	es ♣	22	16	15	36	71	6	2	22	13		656
4	9	23	37	∞	9	16	<del></del>	13	13	-	22	22		, 10	4	2		450
-		<del>, - i</del>	67			-	i	<del>, -  </del>							<del></del> 1	-		19
	,i	က	$\infty$	<del>       </del>		2	,	7	_		ಣ	_	7					41
	-	67	9	1	,	67	6.1	4	9	63	9	4	ŭ		-	62		87
	<del>,</del> -	-	S	23		<b>C</b> 1	-	<del>-</del>	1		ପ	9			-	<u> </u>		38
																	-	
			<del>,</del>		İ													20
																		4
1	1	İ			1	шеления				Ì	_				1	1		67
			4	<del>,</del> -				<del></del>			70	23		<b>Separation</b>		-		49
		1				-			_		•		i		1	***************************************		<b>-</b>
1			<del></del>					-						-				6.1
-	<del>,</del>	10	10	1			1	7				1.0				ಖ		06
					1	_		<del></del>			<del></del>				_	67		29
			1	-			4			1			!					10
:		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•
ham	sham	•	•	:		:			:	:	:	•			:			:
South Ambers	North Ambers	Lurgashall	Fernhurst	Linchmere	Linch	Ŝtedham	Iping	Trotton	Chithurst	Terwick	Rogate	Harting	Elsted	Treyford	Didling	Bepton		Total

# BIRTHS AND BIRTH-RATE.

During the year 1899, the births of 326 children were registered; of these 173 were male, and 153 were female.

Estimating the population in the middle of the year at 14,450, the birth-rate was equal to 22.6 per 1,000 persons living.

In England and Wales the birth-rate during the year was 29.3 per 1,000 persons living, a rate 1.0 per 1,000 below the mean rate in the ten years, 1889-98, and lower than in any other year on record.

The births and birth-rate during the past ten years have been thus registered:—

Year.	Births.	В	Sirth-rate.		Year.	Births.	Birth-rate.
1890	 348		$24 \cdot 4$	1	1895	 345	 24.0
1891	 353		24.7		1896	 336	 23.4
1892	 356		24.9		1897	 346	 21.0
1893	 393		27.5		1898	 328	 $22 \cdot 7$
1894	 371		25.9		1899	 326	 22.6

The mean number of births is 350, and the mean birth-rate is 24.4 per 1,000 of population.

The following table shows the births and birth-rate in each locality during three periods:—

		Birtl	ı-rate.	Birt	hs.	Birth	-rate.
		1876-84.	1893-97.	1898.	1899.	1898.	1899.
Midhurst Parish		25.9	$25 \cdot 6$	24	33	13.9	19.1
Easebourne Parish		28.7	∫ 23·8	31	30	20.3	19.3
Rest of Midhurst S.D.	}	28.7	$\{26.1$	86	87	22.6	22.8
Fernhurst Sub-District.		31.0	26.0	72	52	28.6	20.6
Harting Sub-District .		30.0	24.4	115	124	23.7	25.6
Total		30.1	25.0	328	326	22.7	22.6

## GENERAL MORTALITY.

There were 188 deaths registered in this district during the year 1899, and of these sixteen took place in Easebourne Workhouse. These sixteen deaths have been distributed amongst the several parishes whence each inmate came, viz., Tillington 1, Lodsworth 1, Heyshott 3, Midhurst 4, Easebourne 1, South Ambersham 1, Lurgashall 1, Trotton 1, and Terwick 2.

Estimating the population in the middle of the year at 14,450, the death-rate was equal to 13.0 per 1,000 persons living.

In country places throughout England and Wales the rate of mortality in 1899 was equal to 16.3 per 1,000 of population, or 0.5 per 1,000 below the mean rate in the ten years, 1889-98.

The variations in the death-rate during the past ten years are here shown:—

Year.		Deaths.	1	Death-rate.	Year.	Deaths.	Death-rate.
1890		191		13.4	1895	 198	 13.8
1891		267		18.7	1896	 173	 12.0
1892	-	247		17.3	1897	 191	 13.3
1893		183		12.8	1898	 184	 12.7
1894		197		13.7	1899	 188	 13.0

The mean number of deaths is 202, and the mean-death rate is 14·1 per 1,000 of population.

There have been during this decade 3,502 births, so that the natural increase of population by excess of births over deaths was 1,483.

The following table shows the deaths and death-rate in each locality during the past four years:—

	′							
			ths.			Death	ı-rate.	
	1896.	1897.	1898.	1899.	1896.	1897.	1898.	1899.
Midhurst Parish		19	23	26	11.2	11.2	13.4	15.1
Easebourne Parish	17	22	17	10	11.4	14.4	11.1	6.4
Rest of Midhurst S.D	53	46	56	62	14.0	$12 \cdot 1$	14.7	16.3
Fernhurst Sub-District	31	26	28	17	12.3	10.3	11.1	6.7
Harting Sub-District	53	78	60	73	10.9	16.1	12.4	15.0
Total	173	191	184	188	12.0	13.3	12.7	13.0

In each parish the deaths in 1899 were thus distributed:—

East Lavington		3		Fernhurst	 • •	7 -
West Lavington		5		Linchmere	 • •	3
Tillington		16		Linch	 	1
Lodsworth		14		Stedham	 	4
Selham		3		Iping	 	6
Heyshott		$^{\cdot}$ $^{\cdot}$ $^{\circ}$		Trotton		7
Graffham		4		Chithurst	 	2
Cocking		2		Terwick	 	5
Midhurst		26		Rogate	 	8
Woolbeding		7		Harting	 	29
Easebourne		10		Elsted	 	5
South Ambersham		3		Treyford	 	4
North Ambersham		1		Didling	 	1
Lurgashall	6 +	5		Bepton	 w r	2
-	7	otal	ę •	188		

# INFANT MORTALITY

The *infant mortality* is here given as measured by the number of deaths under one year of age to the total number of births in the year:—

		Deaths unde	r Ratio to	Ratio	
	Births.	one year.	1,000 Births.	1887-96	1898
Midhurst Parish	33	4	121	94	125
Easebourne Parish	30			83	$\int 64$
Rest of Midhurst Sub-Distri	ct 87	6	69	0.)	80
Fernhurst Sub-District	<b>52</b>	3	58	80	55
Harting Sub-District	124	15	121	92	87
Total	326	28	86	87	80

In England and Wales the proportion of deaths under one year of age to registered births was 163 per 1,000, the mean proportion in the preceding ten years having been 151.

# ZYMOTIC MORTALITY.

The deaths from zymotic disease were six in the case of those which are notifiable, and seven in the other class where the number of cases cannot be obtained.

Adding the two classes together, there is a total of 13 deaths with a zymotic mortality of 0.90 per 1,000.

						Cases.	Deaths
	Small Pox			• •		none	none
	Scarlatina		6 Pr		•	46	1
	Diphtheria					15	1
	Membranou	is C	roup	• •		none	none
	(Typhus					none	none
Feyers.	Enteric					18	4
ye	$\{ { m Continued} \   \ $					none	none
E	Relapsing			• •		none	none
	Puerperal					none	none
	Cholera					none	none
	Erysipelas		• •			7	none
	*,		Total			86	6

The deaths in the other classes were as follows:—

Measles			 none
Whooping Cough	• •		 4
Diarrhea and Dy	sentery		 3
Rheumatic Fever			 none
	$T_{\epsilon}$	otal	7

The prevalence in 1897-99, and in each quarter of 1899 of each infectious disease is shown in the following table:—

		1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Total 1899.	1898.	1897.
Small Pox						-		
Scarlatina		14	1	8	23	46	20	22
Diphtheria		7	4	3	1	15	45	7
Membranous Crou	ıp						apply constitution and	
Enteric Fever		2	8	7	1	18	1	8
Continued Fever								And Allendary States
Puerperal Fever		***************************************	mayor make as	***************************************		-,		1
Erysipelas		2	2	3	र पर्न उसका D	7	11	11
296		<b>VP-1470</b>	ages and the contrast of				diagram, too to fine	
Total	• •	25	15	21	25	86	77	48

The Infectious Disease (Notification) Act, 1889, came into operation in this district on January 1st, 1890. There were 55 cases notified in 1890, 83 in 1891, 100 in 1892, 85 in 1893, 39 in 1894, 42 in 1895, and 51 in 1896.

There was no epidemic prevalence of any infectious disease during the year, and the following scheme shows pretty clearly the parishes and the months in which three of the chief diseases were met with.

Isolation of the patient, the disinfection and cleansing of each house seemed to prevent the spread of the disease, and in each case the children in the infected house were not allowed to go to school.

		5	Sca	RLA'	TINA	۸.				DIPHTHERIA.					
	Lurgashall.	Woolbeding.	Rogate	Harting.	Easebourne.	Stedham.	Tillington.	Midhurst.	East Lavington.	Graffham.	Midhurst.	Stedham.	Trotton.	Easebourne	Heyshott.
January	 6	$\tilde{5}$			was the same	****	*********		2	1					
February	 	1	1							2					
March	 -	-		1		desperience and desperience			11-0-1-000000		2 .				
April	 ***				1										
May	 										and the second second	1			
June	 								i		2	gagegale geogramic Annua			
July	 -a vivolata				mention of	2									***
August	 					-									
September	 						5	1					1	1	1.
October	 		1		1	-0.000	9	handy or the second		and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	m-a		aparament date		
November	 				1		1	2					man in the		
December	 	with proposed			2		6		1				) esperiment	+	

		SCARLATINA.	DIPHTHERIA.	ENTER	ic Fever.
January		11	 3		and the second
February		2	 2	4 1	1
March	4 4	1	 2		1
April		1	 4 10.44		
May			 2		1
June			 2		7
July		2	 American Samp		5
August		<b>-</b>	 		
September		6	 :)		2
October	0 0	11	 -		1
November	*	4	 Appeldina la		
December		. 8	 1		

#### WATER SUPPLY REGULATIONS.

The Council have obtained sanction for a lean of £1000 for the purpose of laying services to the houses from the mains.

Communication Pipes.—1. The Council will, at the request of any owner or occupier desiring to be supplied with water, tap the nearest available Water Main, provide, connect and lay a proper ferrule and piping and a stop valve to within eighteen inches of the premises to be supplied.

Consumers' Pipes.—2. The Owner or Occupier of any premises for whom the Council have laid a communication pipe to a stop valve, shall at his own expense, have laid by some properly qualified plumber to be approved by the Council, all proper pipes necessary to convey and distribute the supply to his premises.

- 3. Every consumer's pipe from any stop valve, not being of galvanised iron steam piping or other material sanctioned by the Council, must be of drawn lead of equal thickness throughout, and must be at least of the following weights:—If the internal diameter does not exceed ½-inch at the rate of 5lbs. per lineal yard. If it exceeds ½-inch but not ¾-inch at the rate of 7lbs. per lineal yard. If it exceeds ¾-inch but not ¾-inch at the rate of 9lbs, per lineal yard. If it exceeds ¾-inch but not ¼-inch at the rate of 11lbs, per lineal yard.
- 4. Every consumer's pipe must be protected from frost, and when laid underground shall not be less than two feet from the surface of such ground or paving above the same unless other provision is made for its protection to the satisfaction of the Council's Surveyor.
- 5. No consumer's pipe shall be connected directly to any water boiler, water closet, or urinal, nor be laid, kept, or fixed through, in or into any drain, ashpit, or manure hole, or into any place where, in the event of the pipe becoming unsound, the water conveyed through such pipe would be liable to be fouled.

6. Every house or premises to be supplied with water shall have its own separate consumer's pipe, no house or premises will be allowed more than one consumer's pipe, unless with written permission of the Council.

DRAWING COCKS, ETC.—7. Every drawing cock or stop cock must be strong and well made of hard brass or gun metal, of the screw-down high-pressure type, and when not used for hot water be fixed with leather on the seat of the valve, and when used for hot water be of the form and material adapted for use with hot water, and all such cocks shall be approved and stamped by the Council.

CISTERNS.—8. The Council recommend that all houses be provided with storage cisterns, which must be made of slate or galvanised iron or other approved make, and be kept at all times absolutely water-tight.

9. Every cistern shall be fitted at the inlet with a sufficient ball cock, the valve being of the materials as specified in clause 8, and the ball attached to the arm shall be of copper. The diameter of the ball and the length of rod or spindle of such shall not be less than the following sizes in relation to the diameter of the inlet:—

Diameter of Pipe.Length of Rod or Spindle.Size of ball. $\frac{1}{2}$ -inch.12 inches. $4\frac{1}{2}$  inches. $\frac{3}{4}$ -inch.14 inches. $5\frac{1}{2}$  inches.

- 10. An overflow or waste pipe must not be attached or continue to be attached to any cistern, but as a precaution against over-filling a tell-tale or warning pipe must be fixed in a suitable manner so as to discharge in some conspicuous and approved place on the outside of the building containing such cistern.
- .11. No cistern for the supply of a house shall be fixed underground unless with the written authority of the Council, nor must water supplied by the Council be connected to any underground or rain water cistern, and all cisterns must be fixed in easily accessible positions and be protected from frost, light, and dust.

Water Closets.—12. Every water closet supplied with water from the Council's Mains shall only be supplied by means of a flush cistern of approved construction and of a capacity to discharge only two gallons of water, except the Council shall in writing permit a larger discharge, and no pipe shall be directly or indirectly connected with any part of the closet except from the said cistern referred to.

13. The "pull down" of the cistern shall be so constructed as to prevent it being fixed in any position which will allow the water to be left running to waste.

Every "down pipe" fixed from such cistern for the discharge of water into any pan or basin shall be of lead, and have an internal diameter of  $1\frac{1}{4}$  inches, and must not weigh less than 9lbs. per lineal yard.

- 14 All closet seats must be so constructed and fixed as to admit of easy removal for the purpose of examining the fittings and apparatus connected therewith.
- 15. The overflow pipes of every flush cistern must be carried through an external wall to act as a warning pipe and shall not in any case be connected with any soil pipe or waste pipe from any closet, bath or sink.
- URINALS.—16. Every urinal not supplied by meter shall have a proper cistern in conformity with the regulations named in Clause 12
- BATHS.—17. The inlet of every bath must be distinct and unconnected with the outlet, and should deliver above the overflow of such bath unless supplied from a cistern.

No overflow pipe, other than such as are made to act as warning pipes, shall be made or attached to any bath.

- METERS.—18. A meter or other measuring apparatus must be of a kind, and placed in a situation approved in each instance in writing by the Council's Surveyor.
- 19. Every meter must be sufficiently protected from frost or other injury, and placed in such position with convenient means of access thereto to afford inspection by any officer of the Council.
- 20. A meter must not be connected to more than one inlet pipe leading direct from the communication pipe from the Council's Mains, and must be placed on the house side of the stop valve laid by the Council, and no drawing cock, branch pipe or apparatus shall be fixed to such inlet pipe.
- 21. The Council may at their discretion remove any meter for the purpose of testing the accuracy thereof, for examination or repair, for substituting another meter, or if in their opinion the quantity of water consumed does not warrant the use of a meter, or for any other reason, and no meter shall be used if it is found on being tested by the Council to be inaccurate.
- 22. All meters shall be fixed by the Council at the expense of the consumer or they can be rented from the Council, who will maintain them at a charge for the use thereof of 10 per cent. per annum upon their cost and fitting to the Main.

Hose or Moveable Pipes.—23. No hose or moveable pipe shall be attached to any communication or consumer's pipe or fittings except by previous agreement with the Council.

#### SCALE OF CHARGES.

TO BE CALCULATED UPON THE RATEABLE VALUE ACCORDING TO THE POOR RATE IN FORCE.

Domestic Charges.—Houses of a rateable value of £8 and under —2d. per week.

Houses of a rateable value exceeding £8—1s. in the £ per annum on the rateable value, but in no case a less charge than 10s. per annum.

The above charges to include the supplies for two W C.'s.

For every additional W.C.—5s. per annum.

For every fixed Bath—10s. per annum.

Private Stables assessed with houses, free for two horses and one carriage. For every additional horse or carriage 5s. each per annum.

Garden Hose for gardens by arrangement. Automatic or other standard sprinklers not allowed.

TRADE CHARGES.—Hotels and Schools—1s. 3d. in the  $\pounds$  per annum on the rateable value.

Livery and Trade Stables (separately assessed)—1s. 3d. in the  $\pounds$  per annum on the rateable value (to include two horses and one carriage). For every additional horse and carriage—5s. each per annum.

Butchers, Bakers, and Fishmongers—10s. per annum.

Greengrocers and Hairdressers—5s. per annum.

Laundries 10s. per annum and upwards by arrangement.

Other Trades by arrangement.

#### SYSTEMATIC INSPECTION.

The following is a list of routine work during the year 1899, as recorded in the books of Mr. A. G. Gibbs, the Sanitary Inspector:—

No. of Premises inspected	• •	385
No. of Nuisances reported		223
No. of Nuisances abated with letter		209
No. of Nuisances abated with notice		3
No. of Houses reported unfit for habitation		17
No of Houses reported unfit for habitation	closed	

No. of Houses reported unfit for h	abitation
repaired	17
No. of Houses disinfected	35
NT C TT	35
No. of Cases of overcrowding	, , , , , , , , , , , , , , , , , , ,
NT 6.64 6 11 1 1 1 1	,
NT CO 1 CATE 1	$\dots \qquad \dots \qquad 23$
TT 00 TT 0 TTT 1 11 1 1	10
No of Water Certificates granted for ne	w houses 16
No. of Wells dug or supplies improved	
No. of Houses where Drains re-laid after	
No. of Plans approved for New Houses	

# DUCK LANE, MIDHURST.

The owner of these 12 houses which were reported upon in 1898, has placed them in good repair.

### SCAVENGING AND CLEANSING

The Council have contracted for the removal of house refuse (including tins and scrap iron, in the Parish of Easebourne, the Contractor, traversing the chief streets every Friday between 7.30 a.m. and 10.30 a.m.; also contracted for the removal of house refuse (including tins and scrap iron) in the villages of South and East Harting, and further, for the cleansing of earth closets, privies, and cesspools. The house refuse is collected from moveable receptacles, and earth closets with moveable receptacles are cleansed every alternate Friday between the hours of 7.30 a.m and 12 noon.

## WATER SUPPLY.

The works of Water Supply for the Parish of Midhurst are nearing completion, and the water will be available for the supply of houses in the early spring.

# PROCEEDINGS BEFORE THE MAGISTRATES.

Proceedings were taken against four persons for infringement of By-laws relating to tents, vans, and sheds. Penalties were imposed in each case.

In September, proceedings were taken for the abatement of a nuisance caused in the keeping of pigs. An order was made for the pig pen to be properly paved and drained within one month, and the defendant to pay all costs of proceedings.

## BAKEHOUSES. \*

The bakehouses throughout the district are very well kept, and in no case is there any drain within the building; they are limewashed twice a year.

#### SLAUGHTER HOUSES.

The ten slaughter houses are very fairly kept, and any refuse or offal is removed as soon as possible; the walls are regularly limewashed. Two licenses for the erection of slaughter houses were refused as being too near dwellings.

## ARTICLES OF FOOD

No Article of Food was condemned during the year.

# INQUESTS.

Inquests were held in eleven cases:—Male, 26 years, pneumonia, syncope; male, 32 years, pulmonary tuberculosis; female, 2 days, homorrhage on the brain; male, 39 years, suicide by opium poisoning; female, 13 years, syncope, following effusion consequent on chronic pericarditis; male, 73 years, heart failure; female, 74 years, pneumonia supervening on burns accidentally sustained by falling on a fire; male, 59 years, accidentally crushed between a truck attached to a traction engine and a wall; male, 68 years, drowned in a stream; male, 36 years, acute congestion of left lung and heart failure; male, 4 years, accidently burnt.

There were two deaths returned as "not certified," during the year:—Male, 1 hour, prematurely born; male, 72 years, heart failure.

# MIDHURST RURAL DISTRICT.

Table 1.—Showing the Deaths at various groups of ages in the fifteen years, 1881-95 and in 1896-99.

Period.	At all ages.	Under 1 Year.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 & upwards.
1881-85	1,096	184	111	64	65	306	366
1886-90	1,001	150	88	43	45	285	390
1891-95	1,092	179	93	54	60	298	408
Per 1,000	1,000	161	92	50	53	279	365
1896	156	27	18	16	8	32	55
1897	191	34	8	, 3	14	52	80
1898	184	26	11	11	10	55	71
1899	188	28	14	8	9	52	77

Table 2.—Showing the Deaths from various causes in the twenty years, 1876-95, and in 1896-99.

					Croup.		F	ever	s.					Cough.		Fever.	*to many discount dispray	5
Period		Small Pox.	Scarlatina.	Diphtheria.	Membranous	Typhus.	Enteric.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Co	Diarrhea.	Rheumatic Fe	Influenza.	Total.
1876-80		4	3	14	_	1	10	$\overline{2}$		1	_	3	7	17	12	5	_	79
1881-85	• •	6	22	27	_		10			1	_	10	7	13	10	4		110
1886-90	• • •		2	12			12			2		1	11	23	5	4	5	77
1891-95			1	28	2		9					4	12	19	3	3	60	141
1896	• • •		~=	1			2						-To-valle-Street	10	- Advantor all made	1	4	18
1897	***						2			- Thirt with resident		1	1	1	3	2	4	14
1898	•••			7								1			5		13	26
1899			1	1			4							4	3		8	21
Total	***	10	29	90	2	1	49	2		4		20	38	87	41	19	94	486

# MIDHURST RURAL DISTRICT.

Table 3.—Showing the Death-rate per 100,000 persons living from all causes, and from various causes, in different localities, during the twenty years, 1876-95, and the Death-rate in 1896-99.

LOCALITY.	All Diseases.	Notifiable.	Non-notifiable.	Phthisis.	Lung Disease.	Heart Disease.
Midhurst Parish	1,700	57	63	188	230	170
Easebourne Parish	1,390	74	41	131	156	127
Rest of Midhurst S.D	1,496	69	49	156	194	161
Fernhurst Sub-District	1,423	78	68	137	213	165
Harting Sub-District	1,521	59	53	110	215	152
Mean	1,494	66	55	138	203	155
PERIOD.						
1876-80	1,552	55	60	174	170	182
1881-85	1,540	107	48	143	211	147
1886-90	1,356	40	60	128	207	150
1891-95	1,529	61	52	105	225	141
1896	1,204	21	76	62	153	167
1897	1,326	21	48	146	76	167
1898	1,276	55	35	111	152	111
1899	1,301	41	49	90	138	145

# (A)—Table of DEATHS during the Year 1899, in the MIDHURST

(A)—Table of DEE	7 1. 1.7	D u	.11.111,	9 011		Car	100.	, 111 0110 -			-
	М				ALL D AG	Caus es.	ES				
Names of Localities adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	At all ages.	Under I year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and up- wards.		Small Pox.	Scarlatina. 13	Diphtheria.
(a)	(b)	(c)	(d)	(e)	( <i>f</i> )	(g)	(h)	(i)	Sm	Sca	Dig
Midhurst Parish	22	4	2	3	2	5	6	Under 5 5 upwards.			••••
Easebourne Parish	9			1	1	1	6	Under 5 5 upwards.		1	• • • •
Rest of Midhurst Sub-District	55	6	3	1	2	18	25	Under 5 5 upwards.			1
Fernhurst Sub-District	16	3	1	1	1	6	4	Under 5 5 upwards.			• • • • •
Harting Sub-District	70	15	8		1	20	26	Under 5 5 upwards.		• • • •	
Easebourne Workhouse	16			2	2	2	19	Under 5 5 upwards.	• • • • •		• • • •
,								Under 5 5 upwards.			••••
								Under 5			
•								5 upwards.			
								Under 5			4
								5 upwards.			
								Under 5 5 upwards.	• • • • •	• • • •	• • • •
Totals	188	28	14	8	9	52	77	Under 5 5 upwards.		1	·
			The	e sul	ojoine	ed nu	ımbei	es have also to	be to	aken	int
Deaths occurring outside the District among persons belonging thereto						•		Under 5 5 upwards.		• • • • •	
Deaths occurring within the District among persons not belonging thereto								Under 5 5 upwards.			

CURAL DISTRICT, classified according to Diseases, Ages, and Localities.

[0]	ORTALITY FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.																	
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Croup.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhea and Dysentery.	Rheumatic Fever.	Phthisis.	Bronchitis, Pneumonia, and Pleurisy.	Heart Disease.	Influenza.	Injuries.	All Other Diseases.	Total.
									3								3	6
												4	3	3			6	16
													1	1		1	5	9
										.1			2				6	9
		2										3	6	7	3		24	46
)	• • • • •			• • • < • •					• • • • •						,		4	4
-												2		1	2	1	6	12
									1	1			4		1	1	15	23
_										1		4	3	7	2	2	27	47
	• • • • •	1	•••••	• • • • •	• • • • •		• • • • • •	• • • • •					1	2	•••••	•• ••	12	16
-	• • • • •										• • • • •					• • • • •	• • • • •	
1																		
-				-														
•	• • • • •			• • • • •				• • • • •	• • • • •	• • • • •	• • • • •	• • • • • }		• • • • •	• • • • • •	• • • • •	• • • • •	
•		••••				• • • • •		• • • • •										
								•••••	4	$-\frac{1}{2}$			6		1	1	28	42
		4								1		13	14	21	7	4	80	146
ou	nt ir	ı jud	ging	of th	ne ab	ove	recor	ds o	f mo	rtalit	у.							
	• • • • • •		• • • • •	• • • •	• • • • •		• • • • •		• • • • •	• • • • •			• • • • • • •		• • • • • •	• • • • •		
-	•••••	• • • • •		• • • • •			• • • • •			• • • • •								
								1										

(B)-TABLE OF POPULATION, BIRTHS, AND OF NEW CASES
Officer of Health, during the year 1899, in the MIDHURST

Names of Localities adopted	1	LATION AGES.	rths.	A cool	New Cases of Sick coming to the knowledge							
for the purpose of these Statistics; Public Institutions		10.4:	Bi	Aged under 5	L	2	3	4	5	6		
being shown as separate localities.	Last Census	Estimated tomiddle of 1899.	Registered Births.	or ever 5.	Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Enteric or Typhoid.		
				Under 5	02	1	1	()				
Midhurst Parish	1,674	1,720	33	5 upwards.		$\frac{1}{2}$	3		• • • • •	7		
				Under 5						-		
Easebourne Parish	1,296	1,450	30	5 upwards.		4	1			2		
	2 740	2.010		Under 5		7						
Rest of Midhurst Sub-District	3,769	3,810	87	5 upwards.		20	8			6		
Fernhurst Sub-District	2.514	2,520	52	Under 5		2						
reminuso our-institu	2,013	2,020	02	5 upwards.		4				1		
Harting Sub-District	4,887	4,850	124	Under 5								
6				5 upwards.		5	2			2		
Easebourne Workhouse	. 96	100	. postality de	Under 5								
				5 upwards.		1			1			
				Under 5								
				5 upwards.								
				Under 5						• •		
				5 upwards.								
				Under 5		•						
				5 upwards. Under 5								
				5 upwards.								
				Under 5	-							
				5 upwards.		• • • • •						
				Under 5	-	10	1					
TOTALS	14,230	3 14,450	326	5 upwards.		36	•   • • • •			18		
	1	}			1	1		0				

F INFECTIOUS SICKNESS, coming to the knowledge of the Medical ural District; classified according to Diseases, Ages, and Localities.

ESS	IN	ЕАСН	·Loc.	ALITY	ζ,			N	UMBE	CR OF	SUCI	н Са	SES ]	Rемс	OVED	FROM	I THE	IR	
F T [EA	THE LTH.	M ED:	ICAL	OFFI	CER			Homes in the several Localities for Treatin Isolation Hospital.										MENT	•
7	8	9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12	13
F	EVER	s								20		F	EVEF	RS.					
Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.			Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup	Typhus.	Enteric or Typhoid.	Continued	Relapsing.	Puerperal.	Cholera.	Erysipelas.		
				1		• • • • •		•••••	• • • • •	-	• • • • •		0.024						• • • • •
				2				-			• • • •								••••
				1						• • • • • •				• • • • •					• • • •
				$\begin{bmatrix} 2 \\ \vdots \\ 1 \end{bmatrix}$											• • • • •				••••
							7.												
	,							••••		,									• • • • •
					••••					• • • • •		• • • • •							• • • •
												• • • • •							• • •
			-										-					-	
				7													j		

# WESTBOURNE RURAL DISTRICT.

pp. 131 et seq.

## WESTBOURNE RURAL DISTRICT.

The population in this registration district was 6,669 at the census of 1841, and 6,944 in 1851; it then rose steadily up to 1881, since which period it has declined; this decrease is not to be accounted for by any change in area.

The following figures relate to the present rural sanitary area which is co-extensive with the registration district:—

Area in Statute Acres		1861.	1871. $32,886$	1881. 32,040	1891. 32,040
Number of Inhabited Hou	ıses	1,427	1,495	1,533	1,516
" Uninhabited	,,	43	56	66	112
Population		6,957	7,221	7,420	7,084
Males		3,502	3,611	3,742	3,552
Females	• •	3,455	3,610	3,552	3,532
Persons to a House	• •	4.88	4.83	4.84	4.67

The following table gives the usual information as to the incidence of various diseases in each parish in this district.

In Table 3 the death-rates for various groups of diseases are given for three large parishes and for the rest of the district for a period of fifteen years.

The mean general death-rate for the whole district was 15.0 per 1,000 in the fifteen years 1881-95; there has been very little variation in the general mortality; consumption has apparently decreased, and lung diseases have increased.

All deaths occurring in Westbourne Workhouse have been distributed to each parish whence each inmate came.

Table-showing the Deaths from various causes in each Parish in the nineteen years, 1881-99.

	* £	eəzeəziU IIA	170	9.1	12	7.1	165	& 7.C	21	294	367	64	22	747	2,039
	*əsı	səsiG tarəH		) <b>6</b>	1 (7)	9	14	10	03	53	29	4	-	52	160
	°əs	səsiG Zund	OG	0 0	1 01	16	37	20	7	55	62	10	<b>C</b> 7	146	374
		Phthisis.	C	0		ಸರ	15	4		20	21	10	,—	29	152
le.	•	Вһеитанс Неуег.	G	- c	-				-		· 		-		9
ifiab		.sadrraid	ন	5	1	67	C7			4	$\infty$	1	,	<u>ප</u>	34
Non-notifiable.		Whooping. Gough.	α			<del></del>				63	12	4	,—·	12	43
Z		Measles.						,—	1	က	0.1		<del>,</del> -	<u> -</u>	15
		Erysipelas.	G	1			1			67	<b>6</b> 4		1	<b>C</b> 1	6
		Puerperal.					1		1					67	က
	ers.	Continued.			1		İ		1	Ì					
ole.	Fevers.	Enteric	G						<del></del>	70	က	<del>, -  </del>	1	0	23
Notifiable.		.sunqyT							1	1	1	1	1	1	
No	SI	Membranor Croup.							1		0.7	<del></del>	1		 က
		.sirəhthqiQ				67	1	9		12	1	03	1	19	 55
		Scarlatina.			-				,—			,—		67	 70
		Small Pox.	No.				1		1		-				
		Parish.		West Dean	North Marden	Up Marden	Stoughton	Compton	Racton	Funtington	Bosham	Chidham	West Thorney	Westbourne	Total

#### BIRTHS AND BIRTH-RATE.

During the year 1899, the births of 180 children were registered; of these 95 were male, and 85 were female.

Estimating the population in the middle of the year at 6,930, the birth-rate was equal to 26.0 per 1,000 persons living.

In England and Wales the birth-rate during the year was 29·3 per 1,000 persons living, a rate 1·0 per 1,000 below the mean rate in the ten years, 1889-98, and lower than in any other year on record.

The births and birth-rate during the past ten years have been thus registered:—

Year.	Births.	В	Birth-rate.		Year.		Births.		Birth-rate.
1890	 207		$29 \cdot 1$		1895		165		23.6
1891	 194		$27 \cdot 4$		1896		179		25.7
1892	 203		28.8		1897		185		26.7
1893	 183		26.0		1898		167		$24 \cdot 1$
1894	 199		28.3	İ	1899		180		26.0

The mean number of births is 186, and the mean birth-rate is 26.6 per 1,000 of population.

The following table shows the births and birth-rate in each locality during three periods:—

		h-rate.		ths.	Birth-rate.		
	1876-84.	1893-97.	1898.	1899.	1898.	1899.	
Funtington Parish	23.8	22.6	21	20	21.0	20.0	
Bosham Parish	32.6	27.6	26	40	20.5	31.2	
Westbourne Parish	29.7	26.3	56	54	23.8	$22 \cdot 3$	
Rest of Westbourne Dist.	28.4	$26 \cdot 2$	64	66	27.8	28.7	
Total	28.8	26.1	167	180	$24 \cdot 1$	26 0	

#### GENERAL MORTALITY.

There were 111 deaths registered in this district during the year 1899, and of these twelve took place in Westbourne Workhouse. These twelve deaths have been distributed amongst the several parishes whence each inmate came, viz., West Dean 4, Stoughton 2, Compton 1, Funtington 2, and Westbourne 3.

Estimating the population in the middle of the year at 6,930, the death-rate was equal to 16.0 per 1,000 persons living.

In country places throughout England and Wales the rate of mortality in 1899 was equal to 16.3 per 1,000 of population, or 0.5 per 1,000 lower than the mean rate in the ten years, 1889-98.

The variations in the death-rate during the past ten years are here shown:—

Year.	Deaths.	$\mathbf{I}$	eath-rate.		Year.	Deaths.	Death-rate.
1890	 97		13.6		1895	 110	 15.7
1891	 124		17.5		1896	 97	 13.9
1892	 116		16.4		1897	 90	 $13\ 0$
1893	 126		17.9		1898	 86	 $12 \cdot 4$
1894	 106		15.1	i	1899	 111	 16.0

The mean number of deaths is 106, and the mean-death rate is 15·1 per 1,000 of population.

There have been during this decade 1,862 births, so that the natural increase of population by excess of births over deaths was 799.

The following table shows the deaths and death-rate in each locality during the past four years:—

		Dea	ths.			Death-rate.						
	1896.	1897.	1898.	1899.	1896.	1897.	1898.	1899.				
Funtington Parish	13	5	19	17	13.0	5.0	19.0	17.0				
Bosham Parish	12	15	13	16	9.4	11.8	10.2	12.5				
Westbourne Parish	35	45	26	39	14.9	19.1	11.1	16.6				
Rest of Westbourne D.	37	25	28	39	15.9	10.9	$12 \cdot 2$	17.0				
Total	97	90	86	111	13.9	13.0	12.4	16.0				

In each parish the deaths in 1899 were thus distributed:—

West Dean	12	, ,	Racton	 3
East Marden	.: 1		Funtington	 17
North Marden	non	e	Bosham	 16
Up Marden	4		Childham	 2
Stoughton	9		West Thorney	 1
Compton	7		Westbourne	 39
	Total	١	111	

#### INFANT MORTALITY.

The *infant mortality* is here given as measured by the number of deaths under one year of age to the total number of births in the year:—

	T	Deaths under		Rat	io.
	Births.	one year.	1,000 Births.	1887-96	1898
Funtington Parish	20	4	200	<b>5</b> 5	95
Bosham Parish	40	3	75	77	154
Westbourne Parish	54	7	130	109	71
Rest of Westbourne District	66	3	45	101	109
				*******	
Total	180	17	94	93	102

In England and Wales the proportion of deaths under one year of age to registered births was 163 per 1,000, the mean proportion in the preceding ten years having been 151.

#### ZYMOTIC MORTALITY.

The deaths from zymotic diseases were five in the case of those which are notifiable, and six in the other class where the number of cases cannot be obtained.

Adding the two classes together, there is a total of 11 deaths with a zymotic mortality of 1.59 per 1,000.

						Cases.	Deaths.
	Small Pox					none	none
	Scarlatina		0 P		• 、	98	<b>2</b>
	Diphtheria					39	3
	Membranou	is Cr	oup			none	none
	(Typhus					none	none
Š	Enteric					13	none
Fevers.	{ Continued					$\mathbf{none}$	none
Fe	Relapsing					$\mathbf{none}$	none
	Puerperal					none	none
	Cholera					$\mathbf{none}$	none
	Erysipelas			• •		11	none
			Total			161	5

The deaths in the other classes were as follows:—

Measles					none
Whooping	r Cough	• •		• •	none
		· ·	• •	• •	5
Diarrhea		enter	у	• •	<b>9</b>
Rheumati	c Fever	• •	• •	• •	1
		,	Total		6

The prevalence in 1897-99, and in each quarter of 1899 of each infectious disease is shown in the following table:—

		1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Total 1899.	1898.	1897.
Small Pox				-				
Scarlatina		10	19	34	35	98	114	5
Diphtheria	• • ,		***************************************	22	17	<b>39</b>	4	28
Membranous Crou	p			-	niuman)perde			3
Enteric Fever		1	3	7	2	13	16	10
Continued Fever						40.5 40000		
Puerperal Fever			***********	Our Land Address		turb/AAC	1	3
Erysipelas		4	2	1	4	11	10	5
V 1								elanajorin
Total		15	24	64	<b>5</b> 8	161	145	54

The Infectious Disease (Notification) Act, 1889, came into operation in this district on December 31st, 1891. There were 30 cases notified in 1892, 85 in 1893, and 60 in 1894.

The Infectious Disease (Prevention) Act, 1890, was adopted November 13th, 1891, and it came into operation on December 31st, 1891.

SCARLATINA.—The epidemic of scarlatina which began in May, 1898, and was especially prevalent in Westbourne in the autumn of that year, almost ceased early in January, 1899, but it again appeared in April and May, spreading now to other parishes, and becoming more frequent in the autumn in Stoughton and Up Marden, and finally ceasing in December.

The following table shows the number of notified cases in each parish in each month of the two years, 1898-99:—

	SCARLATINA CASES,			1898.   SCARL					ATINA CASES,			1899.		
		East Marden.	Stoughton.	Funtington	Bosham.	Westbourne.		Up Marden.	Stoughton.	Compton.	Racton.	Funtington.	Bosham.	Westbourne.
January						**********	}		7					1
February				1	-									1
March									-					1
April				1			- 1			1	3			2
May					7	5		1		1		1		3
June					3	6	Ì	April Addings	4	2	1			
July	• •					7				8	5	4		3
August						7			4			1		7
September		1				10		1	1					
October			4 -			39		10	9	2				
November			2 -			14			9	1			1	2
December	• •		1 -			6		All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All and All an					1	

There must have been a great many more children attacked, but the illness was of so slight a nature that no medical man was called in. One would often go to a cottage and find four or five children playing about at home, sometimes with a rash upon them, sometimes peeling, but seldom ill enough to go to bed.

On visiting a hamlet one day, I went into five houses where there were one or two such cases, and no medical attendance had been sought; on another occasion I found a family of ten children in a cottage in a lonely hamlet; nine had had a rash for three or four days, and then in due course they peeled; it was only when the tenth and eldest girl, who was attacked last, had the disorder in a rather more severe form, that a medical man was called in. It was the singular mildness of the attacks that caused its spread, but if these mild attacks render the individuals more or less immune in the after years, it may indeed prove of much value.

Many thought that removal to the Isolation Hospital would have been of service, but the few beds at one's disposal would have been filled at once by one or two families, and could only have been reoccupied at intervals of six weeks or more.

Moreover, it was the distinct view of the District Council that the Hospital was to be used especially for any one falling ill in the Union Workhouse from any infectious disorder, or for any urgent case, which in my opinion ought to be removed.

The cost of sending a child to the Hospital was, of necessity, an expensive affair.

One family, living in a well-built, isolated cottage, had scarlatina, and six were taken to the Hospital by the desire of the owner, who paid £48 17s. 11d. for their maintenance.

One child was an in-patient for 38 days at a cost to the Guardians of £3 8s. 8d.; another was there for six weeks at a cost of £5 13s. 1d.

A mother and child were taken in for 18 days, and the charge was £3 6s. 10d., which was paid for from a private source. Thus ten persons, mostly children, cost, for maintenance only, £61 6s. 6d., or an average of £6 2s. 6d. per case.

Another difficulty arose from providing medical attendance, because as no medical man lived near, and most of them resided many miles away, it could not be expected that they would care to attend them so far from their homes.

Each house was visited, and the children were kept from school, or attending in any public place; disinfectants were given, the clothes, etc., washed at home, and on recovery, the rooms were cleansed and limewashed.

An account of the age-incidence and death-rate in scarlatina is given in the General Report.

#### LODGING HOUSES.

There is one Common Lodging House at Hermitage in which a few lodgers are taken; this is very well kept.

#### COWSHEDS AND DAIRIES.

There are now twenty registered Cowsheds and Dairies, but many of them are on a very small scale; they are well kept.

#### MARGARINE.

Margarine is not much in demand, but in such cases the regulations of the Act are complied with; the sale seems to decrease.

#### BAKEHOUSES.

The Bakehouses are sixteen in number; they are often inspected, and they are kept in a clean condition; one new one has been erected, and one old one has been closed; one which has been disused is now used again.

#### SLAUGHTER HOUSES.

There are five Slaughter Houses, which are very well attended to; three of these are small and used occasionally.

#### ARTICLES OF FOOD

There were no cases in which it was necessary to condemn meat or any other Article of Food.

#### SUNSHINE.

The following figures have been kindly sent to me by the Rev. L. B. Birkett, M.A., from the observations taken by him at Westbourne Rectory with a Jordan Photographic Recorder.

		1894. Hours.		1895 Hours.		1896. Hours.		1897. Hours.		1898. Hours.		1899. Hours.
January		86.3		93.7		52.6	, .	50.7		38.9		
February		96.4		123.3		76.9				112.5		127.6
March		219.1		159.3		124.5		151.6		108.5		188.9
April		188.2		163.0		149.7		153.7		200.1		147.5
May		223.3		314.2		275.0		258.8				
June		$177 \cdot 3$		248.7		263.4				. other area		
July		$192 \cdot 3$		194.2		263·()				232.4		
August		162.5		223.8		170.2				229.3		308.6
September		140.2		248.8		108.1		155.0		243.3		192.8
October		964		108.6		137.8		165.8		93.4		159.6
November		91.1		53.7		$97 \cdot 1$				83.6		63.8
December		67.8		51.4		46.6				$52 \cdot 3$		
Total	1	,740.9	1	,982.7	1,	764.9	1,	817.3	_	750.4	_	,169.9

There were 46 sunless days.

The above figures for 1899 taken from the Meteorological office differ from the totals sent to me by the observer, who puts the total sunshine for the year at 2230.5 hours.

In 1890, there were 1,773.8 hours of bright sunshine, and 68 sunless days; in 1891, the numbers were 1,682.8 and 61; in 1892, the numbers were 1,859.8 and 52; and in 1893, the numbers were 2,070.0 and 54 respectively.

#### RAINFALL.

4	1894.		1895. Amount in	1896. Amount in	1897.	1898.	Δ	1899.
•	inches.	4	inches.	inches.	inches.	inches.	4.	inches.
January	5.37		2.99	 1.17	 2.69	 0.78		3.66
February	2.01		0.19	 0.47	 4.09	 1.98		3.05
March	1.65		$2 \cdot 13$	 3.44	 4.15	 0.80		0.79
April	$2 \cdot 26$		$2 \cdot 25$	 0.31	 $2 \cdot 32$	 1.14		$2 \cdot 95$
May	1.01		0.18	 0.49	 1.42	 3.58		0.88
June	1.75		0.70	 1.75	 3.23	 2.67		1.07
July	5.38		4.78	 0.90	 0.67	 0.45		1.91
August	$2 \cdot 14$		3.23	 1.91	 4.39	 1.36		0.88
Septembe	er 3·19		0.92	 8.34	 2.60	 1.69		2.46
October.	.6.10		3.43	 3.40	 0.45	 3.79		2.81
Novembe	r 5.96		5.34	 1.00	 1.68	 4.70		4.52
December	r 2·22		$2 \cdot 20$	 4.56	 $3 \cdot 44$	 3.28		1.82
						And the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of th		
	39.04		29.34	27.74	31.13	26.22		26.80

There were 151 days on which rain fell.

The rainfall in 1890 amounted to 24·13in., in 1891 to 35·94in., in 1892 to 26·05in., and in 1893 to 27·75in.

Diameter of gauge, 5in. Height above ground, 1ft. 6in.; above sea level, 30ft.

#### INQUESTS.

Inquests were held in fourteen cases:—Male, 2 years, pneumonia following accidental burns; male, 56 years, syncope, arising from a weak and dilated heart; male, 21 years, injuries to skull by a timber waggon accidentally passing over him; male, 71 years, concussion of the brain due to a straw stack, on which he was working, accidentally falling with him; female, 62 years, rupture of a blood vessel in the brain, paralysis; female, 5 months, broncho-pneumonia; male, 22 years, accidentally run over by a train; male, 57 years, heart disease; male, 29 years, accidental fall from a signal post on the railway; male, 4 months, diarrhæa; male, 2 years, rickets, diarrhæa; male, 51 years, suicide by cutting throat with a razor; female, 50 years, cirrhosis of the liver; female, 1 n.ontb, natural causes, congestion of the lungs.

There were no deaths returned as "not certified" during the year.

## WESTBOURNE RURAL DISTRICT.

Table 1.—Showing the Deaths at various groups of ages in the fifteen years, 1881-95 and in 1896-99.

Year.	At all ages.	Under 1 Year.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 & upwards.
1881-85	. 551	91	42	33	23	152	210
1886-90	. 522	90	45	16	25	140	206
1891-95	. 582	105	48	42	23	141	223
Per 1,000	1,000	173	82	55	43	261	386
1896	. 97	10	7	4	7	32	37
1897	. 90	21	5	2	5	23	34
1898	. 86	17	3	3	2	18	43
1899	. 111	17	9	3	8	30	44

Table 2.—Showing the Deaths from various causes in the fifteen years, 1881-95, and in 1896-99.

					Croup.		F	ever	s.		4		,	Cough.		Fever.		
Year	`.	Small Pox.	Scarlatina.	Diphtheria.	Membranous (	Typhus.	Enteric.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Co.	Diarrhea.	Rheumatic Fe	Influenza.	Total.
1881-8	5		1	18			12			1		4	1	9	6			52
1886-9	0		dintinggenes	4			7					1	6	17	3	1	3	42
1891-9	ō		_	26	2		3			1	_	3	8	9	12	4	38	106
1896	• • •			2							_			_			2	4
1897	• • •		- 10	2	1		1					1		5	5	_	1	16
1898	• • •		2			_		_		1				3	3		4	13
1899	• • •		2	3											5	1	io	21
Tota	ıl		<u> </u>	55	3	_	23			3	-	9	15	43	34	6	58	254

#### WESTBOURNE RURAL DISTRICT.

Table 3.—Showing the Death-rate per 100,000 persons living from all causes, and from various causes, in different localities, during the fifteen years, 1881-95, and the Death-rate in 1896-99.

LOCALITY.	All Diseases.	Notifiable.	Non-notifiable.	Phthisis.	Lung Disease.	Heart Disease.
Funtington Parish .	. 1,538	115	58	115	308	128
Bosham Parish	. 1,645	74	90	106	291	122
Westbourne Parish .	. 1,645	79	60	156	344	115
Rest of District	. 1,371	60	76	112	257	93
Mean	. 1,501	77	71	123	293	107
PERIOD.						
1881-85	. 1,473	98	43	123	261	117
1886-90	. 1,376	<b>3</b> 3	75	136	279	97
1891-95	. 1,653	99	94	111	338	108
1896	. 1,395	29		100	201	86
1897	. 1,300	72	145	29	116	159
1898	. 1,243	43	87	43 .	173	188
1899	. 1,600	72	87	43	245	159

# (A)-Table of DEATHS during the Year 1899, in the WESTBOUR

	Mo			FROM			SES			
Names of Localities adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	δ2 20	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and up- wards.		Small Pox.	Scarlatina.
(a)	(b)	(c)	(d)		(f)	-		(i)	Sma	Scar
Funtington Parish	. 15	4			1	. 4	6	Under 5 5 upwards.		
Bosham Parish	16	3	_		2	5	6	Under 5 . 5 upwards.		
Westbourne Parish	36	7	3	1	2	11	12	Under 5 5 upwards.		
Rest of District	32	3	6	2	3	10	8	Under 5 5 upwards.		2
Westbourne Workhouse	. 12	_			_	_	12	Under 5 5 upwards.		
								Under 5 5 upwards.		
,								Under 5 5 upwards.		
								Under 5 5 upwards.		
								Under 5 5 upwards.		
								Under 5 5 upwards.		
Totals	111	17	9	3	8	30	44	Under 5 5 upwards.		2
			The	e sub	ojoine	ed nu	ımber	rs have also to	be ta	ake
Deaths occurring outside the District among persons belonging thereto								Under 5 5 upwards.		
Deaths occurring within the District among persons not belonging thereto								Under 5 5 upwards.		

URAL DISTRICT, classified according to Diseases, Ages, and Localities

RTAL	TALITY FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.  5   6   7   8   9   10   11   12   13   14   15   16   17   18   19   20   21   22																
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Brysipelas.	Measles.	Whooping Cough.	Diarrhea and Dysentery.	Rheumatic Fever.	Phthisis.	Bronchitis, Pneumonia, and Pleurisy.	Heart Disease.	Influenza,	Injuries.	All Other Diseases.	Total.
														1		3	4
												1	3		1	6	11
				• • • • •					1			1				1	3
									1			3	2		2	5	13
									2			$\frac{2}{\ldots}$			1	5	10
											2	2	2	4		15	26
									1			1		1		5	9
										1	1	2	3	3	3	7	23
		•••••	••••		•••••	• • • • •		•••••	• • • • • •			5	1	1	•••••	5	12
									-titire-us tilling								
	• • • • •	• • • • •	• • • • •			• • • • •	• • • • • •	• • • • • •	••••				• • • • • •	• • • • •	••••		
-							~										
		• • • • •		• • • • • •	• • • • •	• • • • • •				• • • • •				• • • • • •		• • • • •	
									-								
			• ••••	• • • • •	• • • • • •								•••••	• • • • •			
		<u> </u>															
•••••		• • • • •					!	• • • • •			• • • • •		• • • • •	• • • • •	'		
						••••				• • • • •						• • • • •	
					••••				4			4.		2	1	.14	26
				/					1	1	3	13	11	8	6	38	85
nt in	a jud	ging	of th	ne ab	ove :	recor	ds of	f mo	rtalit	у.							
																	_

(B)—TABLE OF POPULATION, BIRTHS, AND OF NEW CASE Officer of Health, during the year 1899, in the WESTBOURN

Omcer of fleaton,	adiling									
	Popul at all		ths.	-	COMI	NE NG TO	w C	ASES E KNO	OF S	SIC
Names of Localities adopted for the purpose of these			Bird	Aged under 5	1	2	3	4	5	
Statistics; Public Institutions being shown as separate localities.	Last Census	Estimated tomiddle of 1899.	Registered Births.	or cver 5.	Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Enteric or
(11)				Under 5	-	1				
Funtington Parish	. 1,020	1,000	. 20	5 upwards.		5	1			
Bosham Parish	. 1,258	1,280	40	Under 5 5 upwards.		2	1			-
Westbourne Parish	2,269	2,240	54	Under 5 5 upwards.		8	3			.
Rest of Westbourne District.	2,397	2,300	66	Under 5 5 upwards.		14	 28			
Westbourne Workhouse .	. 140	110		Under 5 5 upwards.		1				
•				Under 5 5 upwards						
				Under 5 5 upwards				••		
				Under 5 5 upwards	••• ••					•••
		1		Under 5						
				5 upwards	••••	••				
			i	Under 5	• • • • • • •					• • •
				Under 8						
				5 upward	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • •		• • • • •	•••
				Under			23	6		
Totals	7,0	084 6,98	30 18	5 upward	ls.		ő	33		

INFECTIOUS SICKNESS, coming to the knowledge of the Medical l District; classified according to Diseases, Ages, and Localities.

IN HE	EACH MEDI	Locz Cal	ALITY Offi	CER			Nu Homi	UMBE ES IN	THE	SEV	H CAS ERAL SOLAT	Loc.	ALITI	IES F	or T	THE REAT	IR MENT	
8	9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12	13
EVER	s.								Z Z		F	EVER	s.					
Relapsing.	Puerperal.	Cholera.	Erysipelas.			Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.		
• • • • •			•	• • • • •						• • • • • •		. <b></b>	••••					
												oralidarillalarillalarillalarilla	***************************************					
• • • • •	* * * * * *	• • • •	4	••••	• • • • •					••••			•••	••••				
••••			3	•••••	• • • • •		• • • • •	•••••	, • • • •				••••		• • • • •			
						, , , ,												
	1		4															
							• • • • •			•••••			••••	•••••				
			•															
	• • • • •	* * * * * *			••••		• • • • •	••••	• • • • •	• • • • •		• • • • •			•••••	• • • • •	• • • • • • •	• • • • •
															••••			
							•											
	••••	• • • • • •	• • • • •				••••		••••				••••		• • • • •	• • • • • • • • • • • • • • • • • • • •		
										69hra-rudo umbilgos								
	• • • • •		••••				• • • • •			• • • • •		• • • • •						• • • • •
		•••••					• • • • •					• • • • •	• • • • •	,				
		• • • • •	11					• • • • •	• • • • •	•••	••••		••••	••••				
			11															!

pp. 147 et seq

	1861.	1871.	1881.	1891.
Area in Statute Acres	584	584	979	1,425
Number of Inhabited Houses	1,051	1,331	1,959	<b>3</b> ,015
- " Uninhabited "	51	129	178	174
" Building "	7	11	82	39
Population	5,805	7,413	10,976	16,606
Males	2,497	3,174	4,701	6,874
Females	3,308	4,239	6,275	9,732
Persons to a House	5.52	5.57	5.51	5.51

The area of this Urban Sanitary District was extended to include the civil parish of Heene, and the District was incorporated as a Municipal Borough by a charter dated 15th August, 1890.

The above figures, previous to 1891, only deal with the old Local Board District of Worthing.

When, on September 3rd, 1890, Worthing became a Municipal Borough, the whole area was divided into five wards.

The mean number of persons in each house in each ward at the last census is here shown:—

		Houses.	Mean No. of Inmates per House.
1.	East Ward	 510	5.4
2.	Central Ward	 1,091	5.7
3.	North-east Ward	 566	5.6
4.	North-west Ward	 <b>575</b>	5.0
5.	West Ward	 273	6.1
	Total	 3,015	5.5

#### BIRTHS AND BIRTH-RATE.

During the year 1899, the births of 368 children were registered; of these 196 were male, and 172 were female.

Estimating the population in the middle of the year at 21,600, the birth-rate was equal to 17.0 per 1,000 persons living, against a rate of 23.4 in 1891, 22.4 in 1892, 21.4 in 1893, 19.2 in 1894, 19.6 in 1895, 20.2 in 1896, 17.2 in 1897, and 18.2 in 1898.

The rate varies very much in each Ward, and it depends upon the distribution of married women living at the child-bearing ages. For this reason the rate is low in the West Ward, and high in the Northeast and North-west Wards.

In each Ward the births for the past five years are here shown :-

No.	Ward.	1895.	1896.	1897.	1898.	1899.
1.	East	 62	89	93	75	83
2.	Central	 118	110	83	98	99
3.	North-east	 55	69	62	72	71
4.	North-west	 101	101	78	106	84
5.	West	 26	19	30	24	31
,		Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Commit			Process constrained and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second a	
	Total	 362	3 <b>8</b> 8	346	375	368

The general birth-rate is low, and it has been steadily declining for several years.

In England and Wales the birth-rate during the year was 29.3 per 1,000 persons living, a rate 1.0 per 1,000 below the mean rate in the ten years, 1889-98, and lower than in any other year on record.

It is of interest to compare the variations in the birth-rate during the last ten years under the Local Board, bearing in mind that the addition of the West Ward has slightly helped to lower the rate.

Year.		Births.	. Bi	rth-rate	Year.		Births.	Birth-rate.
1881	• •	324		$29 \cdot 2$	1886		366	 27.7
1882		355		30.7	1887	. ,	327	 24.5
1883		313		$25 \cdot 7$	1888		322	 23.3
1884		352		27.8	1889		362	 25.6
1885		327		25.0	1890		338	 23.1

#### GENERAL MORTALITY.

There were 315 deaths registered in this district during the year 1899, but to this number must be added the deaths of seventeen persons belonging to this district in East Preston Workhouse, and of six children at Swandean, Durrington, which occurred outside the area. From this total number of 338 there must be deducted the death of four persons in the Worthing Infirmary, who came from outside the district, leaving a total of 334 deaths.

The deaths of 34 visitors were registered.

Estimating the population in the middle of the year at 21,600, the death-rate was equal to 15.5 per 1,000 persons living; excluding persons not belonging to the district, the rate was equal to 13.9 per 1,000.

In country places throughout England and Wales the rate of mortality in 1899 was equal to 16.3 per 1,000 of population, or 0.5 per 1,000 lower than the mean rate in the ten years, 1889-98.

The variations in the death-rate in the Local Board District during the ten years previous to 1891 are here shown:—

	Dea	iths,	Deatl	Death-rate.		
Year. 1881	Including Visitors. 170	Excluding Visitors.	Including Visitors. 15.3	Excluding Visitors. 13.5		
1882	160	142	13.8	$12\cdot3$		
1883	164	151	13.4	12.4		
1884	205	177	$16\cdot 2$	14.0		
1885	178	161	13.6	12.3		
1886	228	210	17.2	15.9		
1887	231	206	17.3	15.4		
1888	$\frac{220}{150}$	187	15.9	13.5		
1889	$\frac{179}{210}$	145	$\frac{12.6}{14.6}$	10.2		
$1890\ldots$	218	181	14.9	$12\cdot3$		

The following tables show the deaths in each Ward occurring in a population estimated in the middle of the year at 21,600; it includes the deaths of all persons not belonging to the district, and also the seventeen workhouse deaths, and the six deaths at Swandean. The corresponding figures for the four previous years are also given.

T	T	$A^r$	113		d	
	171	$\vdash$		-1		١.

	_				Deaths.		
No.	Ward.		1895.	1896.	1897.	1898.	<b>1</b> 899.
1.	East	 	44	54	55	44	60
2.	Central	 	100	92	78	70	112
3.	North-east	 	41	55	55	50	58
4.	North-west	 	71	78	54	58	70
5.	West	 	32	20	30	30	34
					And the second second		
			288	299	272	252	334

The mortality in each quarter of the past five years is here shown:—

SHOWH.	Total.	Total.	Total.	Total.	Total.		771
T' + O +	1895.	1896.	1897.	1898.	1899.	M.	F.
First Quarter	 97	80	74	$\frac{67}{53}$	$\frac{72}{2}$	28	44
Second Quarter	 60	65	64	58	71	34	37
Third Quarter	 62	70	69	72	105	52	53
Fourth Quarter	 69	84	65	55	86	39	47
		-	-				-
	288	299	272	252	334	153	181

The deaths in each quarter at various groups of years are here shown:—

		Under 1 year.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 and over.	Total.
First Quarter		11	4	1	4	27	25	72
Second Quarter		10	3	1	3	26	28	71
Third Quarter		36	9	6	4	21	29	105
Fourth Quarter		12	3	5	2	30	34	86
Total	• •	69	19	13	13	104	116	334

#### INFANT MORTALITY

The *infant mortality* is here given as measured by the number of deaths under one year of age to the total number of births in the year:—

				Deaths.	Ratio to		Rat	io in	
No.	Ward.		Births.		1,000 Births	1895.	1896.	1897.	1898.
1.	East		83	15	181	97	101	129	160
2.	Central		99	23	232	93	191	120	61
3.	North-ea	ast	71	14	197	145	116	81	111
4.	North-w	est	84	15	180	128	109	141	101
5.	West		31	2	64	423	210	166	250
	Total		368	69	187	135	136	124	115

The mean ratio for the past five years is 175 deaths to 1,000 births.

The rate of infant mortality in the Local Board District for the ten years, 1881-90, was in:—

Year.	Ratio.	Year.	Ratio
1881	 86	 1886	 147
1882	 95	 1887	 100
1883	 105	 1888	 93
1884	 122	 1889	 77
1885	 88	 1890	 136

giving a mean ratio for that decade of 105 deaths to 1,000 births.

In England and Wales the proportion of deaths under one year of age to registered births was 163 per 1,000 during the past year, the mean proportion in the preceding ten years having been 151.

#### ZYMOTIC MORTALITY.

The deaths from zymotic diseases were 9 in the case of those which are notifiable, and 17 in the other class where the number of cases cannot be obtained, or a total of 26 deaths in all, with a zymotic mortality of 1.20 per 1,000.

					Cases.	Deaths.
	Small Pox			 	none	none
	Scarlatina			 ٠,	30	none
	Diphtheria			 	30	6
	Membranou	as Cr	oup	 	none	none
	Typhus	٠ •		 	none	none
ă,	Enteric			 	11	1
ve	$\{$ Continued			 	none	none
Fevers.	Relapsing			 	none	none
. ,	Puerperal			 	none	none
	Cholera		• •	 	none	none
	Erysipelas			 	15	2
			Total	 	86	9

The deaths in the other classes were as follows:—

Measles				 none
Whooping	g Cough			 1
Diarrhea	and Dys	sentery	у	 16
Rheumati				 none
		-	Fotal	17

There were eleven deaths from Influenza during the year.

The Infectious Disease (Notification) Act, 1889, came into force on August 3rd, 1890.

The Infectious Disease (Prevention) Act, 1890, came into operation on July 4th, 1891.

The Public Health Acts Amendment Act, 1890, came into operation on July 4th, 1891.

The prevalence in 1897-99, and in each quarter of 1899 of each infectious disease is shown in the following table:—

		1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Total 1899.	1898.	1897.
Small Pox		-			west-correspond		appear through	
Scarlatina		11	2	5	12	30	157	44
Diphtheria		$\ddot{\mathfrak{o}}$	1	14	10	30	23	54
Membranous Crou	ap						quantificação	avages for sold
Enteric Fever			3	3	5	11	3	6
Continued Fever			parameter and				r norma norma	and the state of
Puerperal Fever				congress the residence		—-		4
Erysipelas		3	4	2	6	15	4	10
				-			-	
Total		19	10	24	33	86	187	118

Nearly all the Scarlatina cases, and many of the Diphtheria cases were at once removed to the Swandean Isolation Hospital, and an account of them is given in the General Report.

#### WATER SUPPLY.

The following report, dated December 7th, 1899, gives the result of an analysis by Dr. Dupré, F.R.S., showing the excellent quality of the new water supply.

Chemical Examination.—The water is clear and yields no deposit on standing; it is of moderate hardness, and becomes soft on boiling. The chemical characteristics (small amount of oxygen absorbed, moderate proportion of chlorine and of nitric acid, minute trace only of phosphoric acid, no ammonia, small amount of albuminoid ammonia, absence of blackening on heating the dry residue), correspond in all respects to those of a pure unpolluted chalk water. The water is chemically of great purity, and admirably adapted to serve as a town supply both for drinking and domestic use generally.

BACTERIOLOGICAL EXAMINATION.—General: The number of organisms of all kinds present in the water amounted, on an average of a number of trials, to 60 per cubic centimetre, an extremely satisfactory result.

Special: Two litres of water were filtered through a sterilized Pasteur filter, and the material retained on the filter tested for pathogenic organisms generally, and especially for typhoid, bacillus, and bacillus coli communis, but none such organisms could be detected. This bacteriological examination thus fully bears out the conclusions drawn from the chemical examination.

The water is, both from a chemical and bacteriological point of views free from any suspicion of pollution by sewage or surface drainage, and is admirably adapted to serve as a water supply for the town of Worthing.

Appearance					1
rippearance	• •	• •			clear
Colour					pale bluish green
Smell				11.	none
Deposit					none
Nitrous acid		• •	• •		none
Phosphoric ac	eid				minute trace
Poisonous me	tals		Ø 6		none
Hardness before	ore boili	ing			15.5 degrees, Clark
,, aft	er "				

				Grains per gallon.
Oxygen absorbed from	perm	angana	ate	0.015
Total dry residue			• •	21.56
Colour of ,,				white
Behaviour "		• •	blackens	scarcely perceptibly
On ignition				burns off readily
Chlorine			offe •	1:54
Nitric acid				1.50
Ammonia				0.0000
Albuminoid ammonia				0.0014
	*			Micro-organisms per cubic centimetre.
Total number				60
Bacilus coli communis				none
Typhoid bacillus				none

#### SYSTEMATIC INSPECTION.

The following is Mr. Gardner's Ninth Annual Report showing the work carried on in this department during the year ending 31st December, 1899.

The usual systematic inspection and routine work in connection with common Lodging Houses, 3; Slaughter-houses, 5; Bakehouses, 28; Cowsheds, Dairies, and Milk Purveyor's Premises, 31; has been carried out, and the Committee's requirements, where any work was required, have been complied with.

One Slaughter-house in Little High Street has been partly demolished, the owner having transferred the business to new premises in Brougham Road.

Two applications were received for registration as milk purveyors at No. 2, Downview Terrace, Tarring Road, and No. 36, Cranworth Road, and dealt with; the former premises being suitable, the applicant was placed on the Register; in the latter case the applicant was informed that the premises being unsuitable could not be registered.

Food Inspection.—The Butchers, Fish, and Provisions shops, and the Railway Station have been visited to ascertain whether any article of Food was exposed for sale, or in course of preparation for sale, or in transit, which was unfit for human food, and no unsound food of any description was found exposed for sale, or in course of preparation for sale.

My attention was called in two instances where fish had been consigned to fishmongers in Worthing, and when unpacked was found to be unfit for human food; a certificate was given in each case, and the fish was destroyed by consent of the owners.

- (1) Three boxes of Plaice.
- (2) Sixteen boxes of Mackerel.

MARGARINE ACT.—The provisions of this Act are observed where Margarine is sold.

SALE OF FOOD AND DRUGS ACT.—No samples of Food or Drugs were purchased for analysis under this Act, as the work is done by the County Council through the Police.

Housing of the Working Classes Act.—Four houses were reported as unfit for human habitation; three have been rendered habitable, and one has been permanently closed.

COMPLAINTS.—Thirty-five complaints have been received and investigated, and notices served for the abatement of nuisances and remedying of sanitary defects where found, the following should be especially mentioned.

Attention has been given during the year to manure brought to the Goods Station, the trucks are not allowed to stand so long at the Station before they are unloaded, the Railway Company's attention was called to the condition of the road where this material is unloaded, and the roadway has been metalled.

Sixteen written applications were received under Section 41 of the Public Health Acts relative to the Drainage of 56 houses, viz.:—

High Street		1 ho	uses.	Lyndhurst Road	1 1	nouses.
Warwick Place		2	* *	St. Botolphs Road	2	,,
Tarring Road		2	<b>9</b> 1	Newland Road	3	,,
Grafton Road		4	,,	Clifton Road	10	,,
Buckingham Roa	d	2	<b>)</b> )	Graham Road	2	,,
Orme Road		8	) )	Tarring Road (East)	5	, ,
Herne Road		. 6	,,	Tarring Road (East)	6	٠,
Rowland Road		1	,,	Graham Road	1	,,

ARREARS OF WORK UNDER SECTION 41.—Proceedings were pending at the close of 1898 with respect to eight similar applications relating to the drainage of 33 houses and premises, and the work has been carried out, viz.:—

Nineteen houses, included in 6 applications, have been completed.

Fourteen premises, included in 2 applications, have not been further dealt with.

Montague Street	 10 houses.		Shakespeare Road	2	houses.
Crescent Road	 4 ,,	•	Buckingham Road	5	,,
Hertford Road	 3 ,,		Warwick Street	4	,,
Wenban Road	 2 ,,		South Street	3	22

Contagious Diseases Animals Act.—Assistance was rendered to the County Authority on two occasions on the outbreak of infectious disease amongst cattle, one within the Borough, and the second case some infected carcases were found to have been brought in from an adjoining district. In each case a large quantity of infected material was destroyed, and the premises were thoroughly disinfected and cleansed.

Notifiable Diseases.—Eighty-six cases were inquired into, and where necessary, disinfectants were supplied free of charge to poor people. The house drains were flushed by the fire-hose free of cost in each case.

Forty-six cases were removed to Swandean, and the premises disinfected immediately the patients had left their houses. At each house where infectious disease have occurred an examination was made of the drains and sanitary fittings, and where defects existed they have been remedied.

Where necessary, advantage was taken of the Infectious Disease Prevention Act, and sixteen houses were cleansed.

By verbal or written request 25 premises were cleansed. The cost of disinfectants was:—

		£	S.	d.
Fumigating Material		4	18	0
Disinfecting Fluid		3	5	0
Disinfecting Appliances		4	11	0
	£.	$\frac{-}{12}$	14	0
	المان المان		# L	

The cost to the authority for Instruments, Drain Testing Material, etc., for the year in this Department was £2 10s.

Public Elementary Schools.— The ten Elementary Schools were examined during the year, in two the drainage was found to be defective, in one case the whole of the system was reconstructed and a new connection made to the sewer, in the other case a new sewer was constructed, and nearly all the system of drains was reconstructed with two new connections to the public sewer.

All these schools, with the exception of St. Andrew's, were thoroughly disinfected during the Christmas Holidays, by consent of the managers, as a precautionary measure.

Water Inspection.—Two sets of samples of water were taken for analysis, and the reports on the same were sent to your Committee. Both were taken from the Waterworks at Broadwater.

One local well was abolished, and the town water laid on to the house supplied by same, and the well subsequently filled up.

House to House Survey.—This work has been proceeded with as occasion permitted during the year. A tabulated report on one section of the North-east and one section of the North-west Ward, and final report on the first section of the East Ward, were presented to the Committee, showing the result of the work that has been done in these districts since the survey was commenced.

#### INQUESTS.

Inquests were held in nineteen cases:—Female, 41 years, angma pectoris; female, 84 years, pneumonia and bronchitis; female, 34 years, hemorrhage on brain; female, 64 years, found dead on bed, no marks of violence; male, 44 years, accidental fall; male, 4 years, accidentally drowned by falling into a pond of water; female, 1 day, accidentally suffocated while in bed with her mother; male, 2 days, convulsions induced by premature birth; female, 24 years, accidentally burnt; female, 87 years, senile decay; male, 28 years, suicide by shooting himself with a revolver; female, 65 years, internal cancer; female, 33 years, rupture of an aneurism during childbirth; female, 55 years, accidental fall during an epileptic fit; male, 58 years, heart disease; male, 10 years, disease of the intestine; female, 8 years, accidentally burnt; female, 43 years, suicide by cutting her throat with a knife; male, 21 years, syncope while bathing.

There were three deaths returned as "not certified" during the year:—Male, 52 years, heart disease; female, 81 years, heart disease; female, 5 minutes, premature birth.

Table 1.—Showing the Deaths at various groups of ages in the ten years, 1886-95, and in 1896-99.

Year.	At all ages.	Under 1 Year.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 & npwards.
1886-90	1,076	191	122	4.4	55	339	325
1891-95	1,525	227	140	94	124	493	447
Per 1,000	1,000	160	101	53	69	320	297
1896	299	53	43	33	5	77	87
1897	272	43	31	16	6	86	90
1898	252	43	14	6	11	90	88
1899	334	69	19	13	13	104	116

TABLE 2.—Showing the Deaths from various causes in the twenty years, 1876-95, and in 1896-99.

				Croup.		Fe	ever	S.			:	And the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	Cough.		Fever.		
Year.	Small Pox.	Scarlatina.	Diphtheria.	Membranous	Typhus.	Enteric.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Co	Diarrhea.	Rheumatic F	Influenza.	Total.
1876-80*		19	7			7	1		3	_	1	13	25	28	2	_	106
1881-85*		7	8		,	9	Andrews III		1		2	13	8	21	5	,	74
1886-90*		8	11	_		6	_		. —		3	7	46	22	2		105
1891-95†	. —	3	34	_		175		_	2	-	. 10	44	18	42	1	49	378
1896†		-	39	1		2		_	1			15	4	3	2	2	69
1897+		2	17							_			1	7	1	1	29
1898+		3	2		-								1	11	~	6	23
1899+			6		_	1	_		_		.2		1	16		11	37
Total		42	124	1		200	1	-	7	-	18	92	104	150	13	69	821

<sup>\*</sup>Local Board. †Municipal Borough.

TABLE 3.—Showing the Deaths and Death-rate from all causes and from various causes in the twenty years, 1876-95 and in 1896-99.

ate m	Heart Disease.	157 161 198 172 198 144 170	145 /142 156 149 182 90 150 180
Death-r	Lung Disease.	188 190 217 212 166 104 92 143	171 173 198 190 161 104 134
Mean Annual Death-rate per 100,000 living from	Phthisis.	184 143 161 103 104 124 125	157 128 115 107 133 80 73
Mean A per 100	Nymotic Disease.	219 122 156 377 349 144 82 120	203 1114 145 354 338 144 822 97
	.səssəsiU IIA	1,695 1,450 1,560 1,747 1,557 1,348 1,223 1,546	1,556 1,291 1,351 1,437 1,078 1,388
66-9	Heart Disease.	20 151 151 152 20 20 40 40 40 40 40 40 40 40 40 40 40 40 40	71 86 108 131 35 35 35
g the years 1876-99 from	Lung Disease.	93 115 149 184 32 21 19 19	85 105 136 136 166 21 18 22 29
the ye from	Phthisis.	90 111 116 20 20 25 20 27	77 87 87 81 81 81 81 81 81 81
Deaths during	Symotic Disease	107 74 106 329 67 29 17 26	99 69 98 98 310 65 65 17
Deaths	All Diseases.	827 1,076 1,525 299 272 334	760 781 929 1,358 276 247 222 300
	ni noitaluqoT middle boirse to.	10,200 12,180 13,800 17,400 19,200 20,600 20,600 21,600	10,200 12,180 13,800 17,400 19,200 20,100 20,600 21,600
	TOD.	1876-80 1881-85 1886-90 1891-95 1896 1896 1898 (1898	1876-80 1881-85 1886-90 1891-95 1896 1898 1898 1898
	PERIOD	Including	Excluding Visitors.

(A)—Table of DEATHS during the Year 1899, in the WORTHIN

$(A_j$ —Table o	1 10111	_					C . ***	7.0			
		Moi	AT S	TY F	ROM	ALL (	JAUSI ES.	ES			
Names of Localities adop the purpose of thes Statistics; Public Insti- being shown as separ localities.	tutions	At all ages.	Under 1 year.			is and under 25.	25 and under 65.	(y) 65 and up- wards.	(i)	Small Pox.	Scarlatina. 13
(a)		(b)	(c)	(d)	(e)	(.)	(9)		Under 5		
East Ward		54	15	7	1		17	14	5 upwards.		
Central Ward		99	22	4	3	6	30	34	Under 5 5 upwards.		
North-east Ward .		51	14			1	18	18	Under 5 5 upwards.		• • • •
North-west Ward .		 59	14	4	2	2	19	18	Under 5 5 upwards.		
West Ward		34	2	3		1	9	19	Under 5 5 upwards.		
Infirmary		11			1	3	5	2	Under 5 5 upwards.		
Swandean		6		1	5		Appropriate a service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service of the service		Under 5 5 upwards.		
Holy Rood		. 2					1	1	Under 5 5 upwards.		
St. Mary's Home		. 4				1	1	2	Under 5 5 upwards.		
Friends Convalescent I	Home	. 1		_	. 1				Under 5 5 upwards.		
Totals	S	. 321	67	19	13	3 14	100	108	Under 5 5 upwards.		
				T	he s	ubjoi	ned :	numb	ers have also t	o be	take
Deaths occurring or District among belonging ther	g person	IS IT	2		-		- (	; 9	Under 5 5 upwards.		
Deaths occurring w District amon not belonging	g person	18  38	3 4		2 , 5	2 3	3   13	3 14	Under 5 5 upwards.		

# RBAN DISTRICT, classified according to Diseases, Ages, and Localities.

PRTALITY FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.																	
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhea and Dysentery.	Rheumatic Fever.	Phthisis.	Bronchitis, Pneumonia, and Pleurisy.	Heart Disease.	Influenza.	Injuries.	All Other Diseases.	Total.
• • • • •								1	3			4			$\dots^2$	12	22
		-									6	2	5		2	17	32
	, ,		•• •••	• • • • •					4			3	• • • • •				26
	1					1					9	6	13	1	l 	41	73
			• • • • • •	• • • • •					2						••••	.12	14
					•						$\begin{array}{c c} 2 \\ \hline \end{array}$	3	10	2		20	37
				••••					5	•		3				10	
						1					3	4	7	1	1.	24	41
									$\frac{2}{\dots}$							3	5
											1	5	5	4	1	13	29
	••••										1	. 1		1	2	6	<u>.</u>
										Np		-					1
																	5
			,										\.	2			2
	• • • • •				••••						2					2	
																	4
	• • • •				•••••								1			_	1
							, .	1	16			10			2	30	86
	1					2		,			24	21	41	11	7	123	235
nt in	jud	ging	of th	ne ab	ove r	record	ls of	mon	tality	у.							
	••••											. 1				1	2
-											4		2			9	15
		•••••					[.		3							3	6
	1				1	1	1				7	3	4	3	1	12	32

# (B)—TABLE OF POPULATION, BIRTHS, AND OF NEW CASES Officer of Health, during the year 1899, in the WORTHING

					,		n areas			7 K3. (62a)
Names of Localities adopted	Popui at all	LATION AGES.	ths.		COMI			ASES E KN		
for the purpose of these			Bin	A ged under 5	1	2	3	4	5	6
Statistics; Public Institutions being shown as separate localities.	Census	1899.	Registered Births.	or over 5.	Small Pox.	Scarlatina	Diphtheria.	Membranous   Croup.	Typhus.	Enteric or
(a)	(b)	(c)	(d)	(e)	$\bar{\mathbf{z}}$			CE —	=	\frac{1}{2} =
East Ward	2,767	3,875	83	Under 5 5 upwards.		$\frac{1}{2}$	$\frac{2}{2}$		• • • • •	5
	_			Under, 5		${2}$	2			
Central Ward	6,269	6,550	99	5 upwards.		12	4		•	5
North-east Ward	0.026	3,850	71	Under 5		3				!
North-east Ward	2,950	9,000	/1	5 upwards.		3	3			
North-west Ward	2.017	4,400	84	Under 5			4			
North-west ward	. 2,917	4,400	24	5 upwards.		5	10			
West Ward	1 692	2,900	31	Under 5			3			
			<i>O</i> .	5 upwards.		2	2			
Infirmary	. 25	25	erassa dassa -a	Under 5						
	-	-		5 upwards.						-
Swandean				Under 5						
				5 upwards.						
Holy Rood				Under 5						
	1			5 upwards.		_				
St. Mary's Home			_	Under 5						
				5 upwards.		_				
Friend's Convalescent Home	_			Under 5						
				5 upwards.						
				Under 5						
				5 upwards.						
TOTALS	. 16,606	3 21,600	368	Under 5		6	11			
				5 upwards.		24	19			

INFECTIOUS SICKNESS, coming to the knowledge of the Medical on District; classified according to Diseases, Ages, and Localities.

						1												-
IN H HE I	each Medi	LOCAL	ALITY Offi	CER			Nu Homi	JMBE ES IN	THE	SEV	H CAS	Loc.	ALITI	ES F	OR T	THE	IR MENT	\$.
8	9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12	13
EVER	s.								ω 		F	EVER	s.					
Relapsing.	Puerperal.	Cholera.	Erysipelas.			Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.		
							11	1										
			3				1											
							3			••••							• • • • •	••••
			5				8	3			1							
					• • • • • •		3	•••••		••••							••••	
			2				3		-									
· · · · · · ·			3				3	2  8				• • • • •					• • • • •	
								-			1							
			$\frac{1}{2}$				$\frac{1}{2}$					• • • • •					· · · · • • •	
									-		-							
					••••					• • • • •		••••		•••••				••••
													• • • • •	•••••		••••	• • • • •	
		,								• • • • • •		••••				••••	,	
																	-,	
										• • • • •	• • • • •		• • • • •	• • • • •			•••	•••
			15				7	3 11	••••		1		• • • • •	• • • • •		,	• • • • •	• • • • •
			10				17	1.1			1					1		
1																		

# LITTLEHAMPTON URBAN DISTRICT.

pp. 165 et seq

# LITTLEHAMPTON URBAN DISTRICT.

		,		
Area in Statute Acres	$\frac{1861}{925}$	1871. 925	1881. 925	1891. 925
Number of Inhabited Houses	497	624	743	851
" Uninhabited "	36	52	46	73
" Building "	3	4	17	15
Population	2,350	3,266	3,926	4,452
Males	1,112	1,569	1,865	1,962
Females	1,238	1,697	2,061	2,490
Persons to a House	4.73	5.23	<b>5·2</b> 8	5.23

#### BIRTHS AND BIRTH-RATE.

During the year 1899, the births of 116 children were registered; of these 51 were male, and 65 were female.

Estimating the population in the middle of the year at 6,000, the birth-rate was equal to 19.3 per 1,000 persons living.

The variations in the birth-rate during the past ten years are here shown:—

Year.	Births. Birth-r		irth-rate.	e. Year.			Births.		Birth-rate.	
1890	 89		20.7		1895		110		21.3	
1891	 93		20.8		1896		107		19.6	
1892	 81		17.4		1897		130		$22 \cdot 4$	
1893	 105		21.7		1898		115		19.5	
1894	 98		19.7		1899		116		19.3	

The mean annual number of births is 104 and the mean annual birth-rate is 20.2 per 1,000 persons living.

In England and Wales the birth-rate during the year was 29·3 per 1,000 persons living, a rate 1·0 per 1,000 below the mean rate in the ten years, 1889-98, and lower than in any other year on record.

#### GENERAL MORTALITY.

There were 92 deaths registered in this district during the year 1899, but to this number must be added the deaths of six persons in the East Preston Workhouse, which is outside the district, and of one person in Worthing Infirmary, making the total of 99 deaths; of these 44 were amongst males, and 55 amongst females.

These 99 deaths include the deaths of nine visitors.

Estimating the population in the middle of the year at 6,000, the death-rate was equal to 16.5 per 1,000 persons living.

In country districts throughout England and Wales the rate of mortality in 1899 was equal to 16:3 per 1,000 of population, or 0:5 per 1,000 below the mean rate in the ten years, 1889-98.

The mean annual number of deaths during the last ten years was 70, and the mean annual death-rate is 13.6 per 1,000 persons living.

The variations in the death-rate during the past ten years are here shown:—

ny	Dea	iths.	Death-rate.			
***	Including Visitors.	Excluding Visitors,	Including	Excluding Visitors.		
Year. 1890	38	Visitors.	Visitors. 8.8	8.6		
1891	84	79	18.8	17.7		
1892	59	56	12.8	12.0		
1893	57	56	11.8	11.6		
1894	72	69	14.5	13.9		
$1895\ldots$	78	69	15.1	13.4		
1896	68	62	12.4.	11.3		
$1897\ldots$	71	66	12.2	11.3		
1898	76	72	12.9	12.2		
$1899\ldots$	99	90	16.5	15.0		

In each Quarter of the past six years the deaths were thus registered:—

		1894.	1895.	1896.	1897.	1898.	1899.
First Quarter		21	19	16	20	27	19
Second Quarter		13	23	10	11	10	11
Third Quarter		13	25	32	18	21	42
Fourth Quarter	• •	25	11	10	22	18	27
							-
$\operatorname{Total}$		72	78	68	71	76	99

#### INFANT MORTALITY.

The *infant mortality* is here given as measured by the number of deaths under one year of age to the total number of births in the year:—

Year.		Births.	Deaths under one year.	:	Ratio to 1,000 Births.
1890		89	 4		45
1891	• •	93	 10		107
1892		81	 8		99
189 <b>3</b>		105	 5		48
1894		98	 8		81
1895		110	 13		118
1896		107	 10		93
1897		130	 15		115
1898		115	 23		<b>200</b>
1899		116	 17		146
$\mathbf{Mean}$		$104 \cdot 4$	11.3		105

The seventeen *infantile* deaths included one from whooping-cough, four from diarrhea, three from convulsions, two from lung disease, four from enteritis, and two from marasmus; one infant was born prematurely.

In England and Wales the proportion of deaths under one year of age to registered births was 163 per 1,000 during the past year, the mean proportion in the preceding ten years having been 151.

#### ZYMOTIC MORTALITY.

There were six deaths from zymotic diseases in the case of those which are notifiable, and ten in the other class where the number of cases cannot be obtained. The zymotic mortality was at the rate of 1.46 per 1,000.

						Cases.	Deaths.
	Small Pox					none	none
	Scarlatina				٠.	10	none
	Diphtheria					7	3
	Membranou	as Cro	oup			none	none
	(Typhus					none	none
ģ	Enteric		• •			10	3
Fevers.	{ Continued			• •		none	none
Fe	Relapsing					none	none
, ,	Puerperal					none	none
	Cholera		• •			none	none
	Erysipelas			• •		22	none
			Total			49	6

In the other class the deaths were thus recorded:—

Measles				 none
Whooping	Cough			 2
Diarrhœa		sentery		 8
Rheumatic	Fever		• •	 none
		T	otal	 10

There is no Isolation Hospital in this district.

The Infectious Disease (Notification) Act, 1889, came into operation on March 25th, 1890.

The Infectious Disease (Prevention) Act, 1890, came into operation on March 25th, 1891.

The Public Health Acts Amendment Act, 1890, came into operation on March 25th, 1891.

The prevalence in each quarter of each notifiable disease is shown in the following table:—

		1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Total 1899.	1898.	1897.
Small Pox							47-4877-0-0-4	
Scarlatina		1	1	3	5	10	3 <b>5</b>	4
Diphtheria		1		1	5	7		
Membranous Crou	ıp			-	-			
Enteric Fever			1	6	3	10	3	2
Continued Fever								
Puerperal Fever								1
Erysipelas		1	3	10	8	22	18	10
(1)		averments.		-		-		
Total		3	5	20	21	49	56	17

### SCAVENGING AND CLEANSING.

The work is well done and the streets are kept very clean and well watered. The health of the town, as usual, was in a very satisfactory condition during the year.

### SLAUGHTER HOUSES, BAKEHOUSES, AND COWSHEDS.

There are 3 Slaughter Houses, 8 Bakehouses, and 6 Cowsheds, and they are periodically inspected and found generally in a well-kept state. The town water is laid on to all these premises.

### CASES OF OVERCROWDING.

There were no cases of overcrowding abated during the year.

### PROCEEDINGS BEFORE THE MAGISTRATES.

No Proceedings were taken before the Magistrates during the year.

### INQUESTS.

Inquests were held in six cases:—Male, 65 years, syncope; female, 59 years, found drowned in the sea; female, 43 years, natural causes, convulsive fit; male, 3 years, accidentally run over by a van; male, 71 years, rupture of aneurism of the aorta; female, 54 years, suicide by self-inflicted wounds on wrist and legs with a knife.

There were no deaths returned as "not certified" during the year.

### LITTLEHAMPTON URBAN DISTRICT.

Table 1.—Showing the Deaths at various groups of ages in the ten years, 1886-95, and in 1896-99.

Year.	At all ages.	Under 1 Year.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 & upwards.
1886-90	270	38	25	11	17	78	101
1891-95	350	45	34	19	16	108	128
Per 1,000	1,000	134	95	48	53	300	370
1896	68	10	9	4	1	27	17
1897	71	15	4	1	2	21	28
1898	76	23	4	1	7	21	20
1899	99	17	12	5	5	32	28

TABLE 2.—Showing the Deaths from various causes in the twenty years, 1876-95, and in 1896-99.

					Croup.		F	ever	s.	_				Cough.		Fever.		
Year.		Small Pox.	Scarlatina.	Diphtheria.	Membranous	Typhus.	Enteric.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Co	Diarrhœa.	Rheumatic Fe	Influenza.	Total.
1876-80			7	3	_		_			1	_	1	2	1	5	1		21
1881-85	• •	-	_	1			1	3				2	4	4	4			19
1886-90		1	_	1								1	4	8	7	1	1	24
1891-95		_	1	4		T-Strauger	1					1	6	8	5	2		28
1896		_		1			1						1	5			1	9
1897		_			_		1						_		1		_	2
1898	• • •		1	_	_					_				1	5	_	3	10
1899	•••			3	_		3						_	2	8			16
Total		1	9	13	-		7	3		1	_	5	17	29	35	4	5	129

### LITTLEHAMPTON URBAN DISTRICT.

TABLE 3.—Showing the Deaths and Death-rate from all causes and from various causes in the twenty years, 1876-95 and in 1896-99.

		•	
ate m	Heart Disease.	96 135 128 152 91 207 51	91 125 109 139 91 190 34 150
Death-raing from	Гипд Бівеаѕе.	184 200 224 189 165 241 277	178 195 219 171 165 241 254
Mean Annual Death-rate per 100,000 living from	.aisidthd	195 130 137 113 110 86 136 83	174 125 132 97 91 69 118 66
Mean A	Zymotic Disease.	114 94 110 116 146 34 118	109 79 86 108 146 34 102 266
	.səssəsiU IIA	1,416 1,391 1,282 1,460 1,245 1,224 1,288 1,588	1,346 1,311 1,187 1,372 1,135 1,135 1,134 1,220 1,500
66-9	Heart Disease.	18 27 27 36 12 13	17 25 23 33 11 20 0
Deaths during the years 1876-99 from	ьавэгіП уппЛ	34 40 47 45 9 14 16 16	33 46 41 9 15 15
g the ye from	Phthisis.	36 29 20 20 30 30 30 30 30 30 30 30 30 30 30 30 30	8 8 8 8 8 4 7 4 4 4 4 4 4 4 4 4 4 4 4 4
s during	oitomyZ əssəsiU	21 19 23 28 8 8 7	20 16 18 26 8 8 2 8 2 6
Death	All Diseases.	261 278 270 350 68 71 76 99	248 262 250 329 62 62 72
	ni noitsluqo elbbim of Period.	3,688 4,000 4,200 4,840 5,460 5,900 6,000	3,688 4,000 4,200 4,840 5,460 5,900 6,000
	IOD.	1876-80 1881-85 1886-90 1891-95 1397 1898 (1898	1876-80 (1881-85 1886-90 1891-95 1897 1898 (1898
	PERIOD	Including	Excluding Visitors.

## (A)-Table of DEATHS during the Year 1899, in the LITTLEHAMPTO

	Мс			FROM OINE			ES			
Names of Localities adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	At all ages.	Under 1 year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and up- wards.		Small Pox.	Scarlatina.
(a)	(b)	(c)	(d)	(e)	( <i>f</i> )	(g)	(h)	(i)	Sm	Sca
Littlehampton Urban District	92	17	12	5	4	31	23	Under 5 5 upwards.		
								Under 5 5 upwards.		
					}			Under 5		
								5 upwards. Under 5		
								5 upwards.		
								Under 5		
								5 upwards.		
								Under 5 5 upwards.		
								Under 5 5 upwards.		
								Under 5 5 upwards.		
								Under 5 5 upwards.		
		+						Under 5 5 upwards.		
Totals	. 92	17	12	5	4	31	23	Under 5 5 upwards.		
			T	he sı	ıbjoir	ned r	umbe	ers have also to	be	tak
Deaths occurring outside the District among person belonging thereto	s 7				1	1	5	Under 5 5 upwards.		
Deaths occurring within the District among person not belonging thereto	e s 9		2		$\frac{1}{2}$	1	4	Under 5		-
not belonging thereto	1	1	1				1	5 upwards.		-

# RBAN DISTRICT, classified according to Diseases, Ages, and Localities.

RTA	LITY	FROM	I SUB	JOIN	ED C	AUSES	, DI	STIN	GUISH	IING	DEA	THE OF	Crr				J.
1	1	1	1	UN	DER	Fivi	YE	ARS	of A	GE.	DEA.	THS OF	OHI	LDKE	IN		
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	,	EVE		1					nd			××					
us.	ric on	nned	sing	eral.	rg.	pelas	es.	ping .	mea a	natic	is.	nitis, onia euris	oi l	za.	တို့	her S.	
Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhœa and Dysentery.	Rheumatic Fever.	Phthisis.	Bronchitis, Pneumonia, and Pleurisy.	Heart Disease.	Influenza.	Injuries.	All Other Diseases.	TOTAL.
-					5	<b>=</b>	<u> </u>				<u></u>		H C	In In	In		
••••	3			•		•••••	••••	$\frac{2}{\dots}$	6	•••••		6			• • • • •		29
									$\left  \begin{array}{c} 2 \\ - \end{array} \right $		5	9	9		$-\frac{2}{}$	32	63
• • • • •	•••••	• • • • •		• • • •	• • • • • .	••••	• • • • •	• • • • • •			• • • • • •						
		• • • • • •				•••••	••••	• • • • •	••••	••••	••••			••••	••••	••••	
• • • • • •		• • • • • •				••••	• • • • • • •		• • • • • •	••••	••••	•••••	••••	••••	••••	• • • • • • • • • • • • • • • • • • • •	
														_			
				••••	••••			••••	••••	••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • •	••••	••••	••••	• • • • • • • • • • • • • • • • • • • •	
	-																
				••••	•••	• • • • • • • • • • • • • • • • • • • •	• • • • •	• • • •   •	••••	•••		•••••		• • • • • • • • • • • • • • • • • • • •	• • • •	••••	• • • • • •
						• • • • • • • • • • • • • • • • • • • •	•		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	••••	• • • •   • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	••••
								• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •				• • • •	••••
• • • •															_		
												••••••	• • • • • •	• • • •	• • • • • • • • • • • • • • • • • • • •	•••	
• • • •																	
														•••			• • • • • • • • • • • • • • • • • • • •
• • • •	••••			• • • • • •				2	6			6			1	3	29
	3								2	- 1	5	9	9		2 3	2	63
t in	judgi	ng o	f the	abov	e rec	ords	of	mort	ality.	,	, , ,	,	,		1	,	
												1	1		1	5	7
•••		•••												]			2
		1									1	1	1		4	E	7

(B)—TABLE OF POPULATION, BIRTHS, AND OF NEW CASES
Officer of Health, during the year 1899, in the LITTLEHAMTON

						CHELL SHIPPING				
Names of Localities adopted	Popul AT ALL	LATION AGES.	rths.		COMI			CASES IE KN		
for the purpose of these Statistics; Public Institutions		Esti-	i Bi	Aged under 5	1	2	3	4	5	6
being shown as separate localities.	Last Census	mated tomid-	Registered Births.	or cver 5.	Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.		Enteric or Typhoid.
				Under 5			2			11
Littlehampton Urban District	4,452	6,000	116	5 upwards.		10	5		• • • • • •	91
	_			Under 5						
				5 upwards.				- • • • •		
				Under 5						
				5 upwards.					• • • • •	
				Under 5						
				5 upwards.						• • •, •
				Under 5						,
				5 upwards.						
	-			Under 5				_		
				5 upwards.						
				Under 5	-		-			
				5 upwards.						
			-	Under 5						
				5 upwards.						
				Under 5	-	-				
				5 upwards.						
1				Under 5						
				5 upwards.						
				Under 5						
		,		5 upwards.						
Totals	. 4,452	6,000	116	Under 5			2			
L V LAID	1,102	0,000	110	5 upwards.		10	5			

INFECTIOUS SICKNESS, coming to the knowledge of the Medical n District; classified according to Diseases, Ages, and Localities.

		2 30					4 1 1 1					H2	28.6 th					
IN I	EACH MEDI	Loc.	ALITY Offi	CER			Nom:	UMBE ES IN	THE	SEV	H CA ERAL SOLAT	Loc	ALITI	ES F	or T	I THE	EIR MENT	
8	9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12	13
VER	s.								st		F	EVER						
Relapsing.	Puerperal.	Cholera.	Erysipelas.			Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.		
			1					·										
			21															
										• • • • •				• • • • •			• • • • • •	••••
														• • • • •		• • • • • •		•••••
												• • • • • •	• • • • • •				• • • • •	
											ADMINISTRAÇÃO I BARRA							
	• • • • • •			(	* * * * *					• • • •		•••••		••••	• • • • •			
														• • • • • •				
	. • • • •				• • • • • •					. • • • •								
				• • • • • •	• • • • •					• • • • •				• • • • •				
-																		
1	• • • • •		• • • • •						• • • • • •								• • • • •	
		• • • • •	• • • • •	• • • • •			• • • •	• • • • •				• • • • •	• • • • •		• • • • •		• • • •	• • • • •
			1									•						
	1	• • • • •	21	• • • • •	• • • • • •		• • • • •	• • • • •	• • • • •		* * * * * *		• • • •		• • • • •	• • • • • •		
										,	,			<i>i.</i> j.		Addition of the second of the		

## ARUNDEL URBAN DISTRICT.

pp. 177 et seq

### ARUNDEL URBAN DISTRICT.

			1861.	1871.	1881.	1891.
Area in Sta	atute Acres		1,969	1,969	1,969	1,969
Number of	Inhabited Ho	uses	528	546	552	550
,,	Uninhabited	<b>?</b> ?	23	14	5	20
,,	Building	,;	northnorthy.	1	1	1
Population			2,498	2,956	2,748	2,644
Males			1,201	1,466	1,357	1,327
Female	es		1,297	1,490	1,391	1,317
Persons to	a House		4.73	4.31	4.98	4.80

### BIRTHS AND BIRTH-RATE.

During the year 1899, the births of 68 children were registered; of these 43 were male, and 25 were female.

Estimating the population in the middle of the year at 2,640, the birth-rate was equal to 25.7 per 1,000 persons living.

The variations in the birth-rate during the past ten years have been as follows:—

Year.	Births.	Birth-rate.	Year.		Births.	Birth-rate.
1890	 79	$\dots 29.2$	1895		76 .	. 28.8
1891	 59	22.3	1896	, .	77	. 29.2
1892	 69 .	26.1	1897		78 .	. 29.5
1893	 78	29.5	1298		69 ,	. 26.1
1894	 76	28.8	1899		<b>6</b> 8 .	. 25.7

The mean annual number of births is 73 and the mean annual birth-rate is 27.5 per 1,000 persons living.

In England and Wales the birth-rate during the year was 29.3 per 1,000 persons living, a rate 1.0 per 1,000 below the mean rate in the ten years, 1889-98, and lower than in any other year on record.

In each Quarter of the past five years the deaths were thus registered:—

		1895.	1896.	1897.	1 <b>8</b> 98.	1899.
First Quarter	• •	15	24	24	14	14
Second Quarter		22	12	15	20	22
Third Quarter		22	21	18	17	15
Fourth Quarter		17	20	21	18	17
Total		76	77	78	69	68

### GENERAL MORTALITY.

There were 45 deaths registered in this district during the year 1899, but to this number must be added the deaths of three persons in the East Preston Workhouse, which is outside the district, so that the total number of deaths amounts to 48; and of these 20 were male, and 28 were female.

Estimating the population in the middle of the year at 2,640, the death-rate was equal to 18.2 per 1,000 persons living.

In country places throughout England and Wales the rate of mortality in 1899 was equal to 16.3 per 1,000 of population, or 0.5 per 1,000 below the mean rate in the ten years, 1889-98.

The variations in the death-rate during the past ten years are here shown:—

Year.		Deaths.	D	eath-rate.		Үелг.	Deaths.	1	Death-rate.
1890		70		25.9		1895	 32		$12 \cdot 1$
1891		51		19.3		1896	 32		12.1
1892	, .	45		17.0		1897	 49		18.6
1893		46		17.4		1898	 49		18.6
1894		32		12.1	Ì	1899	 48		18.2

Thus there have been during the above period 454 deaths, and a mean annual mortality of 17·1 per 1,000 of population. During the same period there were 729 births, so that the natural increase of population by excess of births over deaths was 275.

### INFANT MORTALITY.

The *infant mortality* is here given as measured by the number of deaths under one year of age to the total number of births in the year:—

Year.	Births.	Deaths under one year.		Ratio to 1,000 Births.
1890	 79	 18		<b>2</b> 28
1891	 59	 11		186
1892	 69	 4		58
1893	 78	 9		115
1894	 76	 6		79
1895	 76	 3		39
1896	 77	 8		104
1897	 78	 11		141
1898	 69	 7	0 0	101
1899 -	 68	 8		117
		the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		
${f Mean}$	 73	8.5		117

The eight *infantile* deaths included one from measles, two from diarrhœa, one from brain disease, one from enteritis, and one from debility; two infants were born prematurely.

In England and Wales the proportion of deaths under one year of age to registered births was 163 per 1,000 during the past year, the mean proportion in the preceding ten years having been 151.

### ZYMOTIC MORTALITY.

There was one death from zymotic disease in the case of those which are notifiable, and three in the other class where the number of cases cannot be obtained. The zymotic mortality was at the rate of 1.51 per 1,000.

					Cases.	Deaths.
	Small Pox			 	none	none
	Scarlatina				3	none
	Diphtheria			 	4	none
	Membranov	is Cr	oup	 	none	none
	(Typhus			 	none	none
Š	Enteric			 	1	1
Fevers.	{ Continued			 	none	none
Fe	Relapsing			 	none	none
	Puerperal			 	none	none
	Cholera	* *		 	none	none
	Erysipelas			 	2	none
			Total	 v •	10	1

In the other class the deaths were thus recorded:—

Measles				1
Whooping Cough			 non	е
Diarrhea and Dys	sentery			2
Rheumatic Fever			 non	e
	I	'otal		3

There is no Isolation Hospital in this district.

The Infectious Disease (Notification) Act, 1889, came into operation on May 13th, 1891.

The Infectious Disease (Prevention) Act. 1890, came into operation on March 16th, 1891.

The Public Health Acts Amendment Act, 1890, came into operation on March 16th, 1891.

The prevalence in each quarter of each notifiable disease is shown in the following table:—

		1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Total 1899.	1898.	1897.
Small Pox				THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P				
Scarlatina				2	1	3	2	3
Diphtheria			1	2	1	4	6	2
Membranous Crou	ιp							
Enteric Fever		distribution and the second	1			1	3	4
Continued Fever					serinda rassassa	an 1 manua		
Puerperal Fever	• •				dimposition that			en-encorren
Erysipelas		1	- Option of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the la		1	2	2	4
			erdenetti ottaa					
Total		1	2	4	3	10	13	13

There were five cases notified in 1891; 7 in 1892; 52 in 1893; 16 in 1894; 4 in 1895; and 22 in 1896.

### WATER SUPPLY.

The town is supplied with excellent water given by the Duke of Norfolk, who limits the quantity used daily to the liberal amount of 75,000 gallons.

### DRAINAGE AND SEWAGE.

The new system of sewerage which was completed in 1896 is working very satisfactorily.

#### BAKEHOUSES.

These are six in number, and they are very well kept. There is no bakehouse on a large scale, and the chief duty is to see that they are frequently cleansed and limewashed. In each case there is a good amount of light and air, and in no instance is there any drnin within the building.

### SLAUGHTER HOUSES.

These are five in number, and they are very well kept as regards cleanliness and removal of refuse. The meat in all cases has seemed to be of good quality.

#### COMMON LODGING HOUSES.

These are three in number, but the number of inmates is very small. The houses are very well kept.

#### PROCEEDINGS BEFORE THE MAGISTRATES.

No legal proceedings were taken during the year.

#### RAINFALL.

This table showing the rainfall in each month has been kindly sent to me by Arthur Holmes, Esq., who has made similar observations for many years:—

y yours.	1897.	1898.		1	899.	
				Fall in inches.	R	No. of ainy Days.
January	 2.84	 0.91		<b>3·</b> 31		16
February	 3.73	 1.72		3.37		10
March	 5.42	 1.18		0.84		5
April	 $2 \cdot 34$	 1.14		2.66		14
May	 1.11	 3.13		1.32		6
June	 3.38	 $2 \cdot 27$		0.97		3
July	 0.75	 0.57	• •	1.68		5
August	 2.97	 1.64		():27		4
September	 3.07	 0.97		3.22		12
October	 0.52	 5.33		1.68		9
November	 1.88	 4.47		4.18		8
December	 4.44	 3.17		1.61		12
	32.45	$\frac{-}{26.50}$		25.11		104

Year	1899			25.11		6 5	104
,,	1898		• •	26.50			124
"	1897		6 4	$32 \cdot 45$			133
) )	1896			28.35			128
"	1895			30.27		• •	136
"	1894	• •	• •	37.73			167
	1893	• •	• •	26.21			130
29	1892	* 1	• •	27.62	• •		129
"	1891	b 6	. 1	32.89	• •	, ,	168
"	1001	• •		<b>52</b> 00		• •	
	Mean			29.68			135
	MESH			=0 00			100

The diameter of the funnel is 8 inches; it is placed 4ft, 6in. above the ground, and 30 feet above sea level.

The gauge was moved in June, 1899, to Warningcamp about one mile north-east of the old site.

### INQUESTS.

One inquest was held: Male, 77 years, found drowned in the river Arun.

There were no deaths returned as "not certified" during the year.

### ARUNDEL URBAN DISTRICT.

TABLE 1.—Showing the Deaths at various groups of ages in the ten years, 1886-95, and in 1896-99.

Year.	At all ages.	Under 1 Year.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 & upwards.
1886-90	292	42	31	16	21	103	79
1891-95	206	33	10	10	7	64	82
Per 1,000	1,000	151	82	52	<b>5</b> 6	335	324
1896	32	8	3			9	12
1897	49	11	6	1	1	15	15
1898	49	7	7		1	12	22
1899	48	8	3		2	15	20

### ARUNDEL URBAN DISTRICT.

TABLE 2.—Showing the Deaths from various causes in the seventeen years, 1883-99.

				Croup.		F	ever	S.					Cough.		Fever.		
Year.	Small Pox.	Scarlatina.	Diphtheria.	Membranous	Typhus.	Enteric.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Co	Diarrhea.	Rheumatic Fe	Influenza.	Total.
1883-85	_		1									1	1	3			6
1886-90	of train names	16	7	Windows .		11	1		,1		1	1	1	3	1	2	45
1891-95	-	2				2			_		_	1	1	3	_	11	20
1896	_	_	2			1	_				-		1	1			5
1897	_					3				_			11			1	15
1898	_		2	-	-	_	_			-						3	5
1899			_		Digente.	1	_	_	_	-	_	1		2		3	7
Total		18	12			18	1		1		1	4	15	12	1	20	103

### ARUNDEL URBAN DISTRICT

Table 3.—Showing the Deaths and Death-rate from all causes and from various causes in the seventeen years, 1883-99.

ate m	Heart Disease.	157	233	303	92	189	265	341
Mean Annual Death-rate per 100,000 living from	Lung Disease.	242	269	250	151	227	151	38
nnnal),000 liv	Phthisis.	267	232	66		113	က	114
Mean A	Zymotic Disease.	7.2	312	89	189	530	92	151
	.səssəsiU [[A	1,478	2,147	1,560	1,212	1,856	1,856	1,818
3-99	Heart Disease.	13	32	40	67	್ತ	7	6
ars 188;	.əssəsiG gand	20	37	က	4	4	4	<del>, - 4</del>
ng the years 1883-99 from	Phthisis.	22	32	133	ಣ	ಣ	<del>,</del>	က
s during	Symotic Sessed	9	43	0	ro	14	C1	4
Deaths duri	.səssəsiU IIA	122	292	206	32	49	49	48
	Population in middle of Period.	2,750	2,700	2,640	2,640	2,640	2,640	2,640
		•	•	•	*		ф Ф	
	D.		:	•	•	•	© Ø	:
	PERIOD	3-85	3-90	-95	:		:	
		1883-85	1886-90	1891-95	1896	1897	1898	1899

(A)-Table of DEATHS during the Year 1899, in the ARUNDEL

	Mo	ORTAI AT	LITY : SUBJ	FROM	ALL D AG	Caus	SES			•	
Names of Localities adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	At all ages.	Under I year.	1 and under 5.	and under 15.	15 and under 25.	25 and under 65.	65 and up- wards.		Pox.	tina.	Diphtheria.
$(\alpha)$	(b)	(c)	(d)	(e)	( <i>f</i> )	(g)	(h)	(i)	Small	Scarlatina.	Dipht
Arundel Urban District	45	8	3		$\begin{vmatrix} \frac{1}{2} \\ 2 \end{vmatrix}$	12	20	Under 5			
								5 upwards.			
								Under 5 5 upwards.			
				-				Under 5			
								5 upwards.	••••		
								Under 5			
								5 upwards.			
								Under 5			
		1						5 upwards.			-
								Under 5 5 upwards.			
				-				Under 5			
			1					5 upwards.			
•								Under 5			
								5 upwards.			
								Under 5			
			1					5 upwards.			
								Under 5 5 upwards.	••••		
								Under 5			-,
Totals	4.5	8	3	-	2	12	20	5 upwards.			• • 4
		1	Th	e su	bjoin	ed n	umbe	rs have also to	be t	aken	iı
Deaths occurring outside the District among persons belonging thereto	3	-	_	_		3	donas	Under 5 5 upwards.			•••
Deaths occurring within the	-			-				Under 5			-
District among persons not belonging thereto	S	1						5 upwards.			

## RBAN DISTRICT, classified according to Diseases, Ages, and Localities.

R	RTALITY FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.																	
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
			EVER				38.		ಹಿ	and y.	ric		is, nia, risy.				£4	
	Typhus.	Enteric or Typhoid.	Continued	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhœa and Dysentery.	Rheumatic Fever.	Phthisis.	Bronchitis, Pneumonia, and Pleurisy.	Heart Disease.	Influenza.	Injuries.	All Other Diseases.	Total,
		1						1		2					,,1		6	11
										Í	1	2.	1	8	2	1	20	34
																•••••		
							1											
					• • • • •													
	• • • • •	•••••			• • • • •	•••••			* * * * * *	• • • • •								• • • • • • • •
-																		
		• • • • •	• • • • •	• • • • •						• • • • • •				• • • • •		•• ••		
-																		
	• • • •	• • • • •		• • • • •		• • • • •		•••			• • • • •					• • • • • •	•••	
_														<u></u>  _				
	• • • •												•••••	•• •••				
								<del></del>										
	• • • •				• • • • •							• • • • •						
	• • • • •		• • • • •					• • • • •			• • • • •							
												)						
	••••	1						1	••••	$\begin{bmatrix} 2 \\ \end{bmatrix}$							6.	11
		ļ					1					2	1	8	$2 \mid$	1	20	34
r	nt in	ı jud	ging	of th	ne ab	ove 1	record	ds of	mo	rtalit	у.					7		
												1		1			1	3
					-						-							

(B)—TABLE OF POPULATION, BIRTHS, AND OF NEW CASE
Officer of Health, during the year 1899, in the ARUNDE

							A 0			
Names of Localities adopted		LATION L AGES.	rths.	Agod	COMI			Cases ie kn		
for the purpose of these Statistics; Public Institutions		Esti-	Bi Bi	Aged under 5	1	2	3	4	5	
being shown as separate localities.	Last Census	mated tomid-	Registered Births.	or over 5.	Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Enteric or
				Under 5			1			
Arundel Urban District	2,640	2,640	68	5 upwards.		3	3		• • • • • •	• • •
				Under 5						-
				5 upwards.	• • • • • •			- • • • •		
				Under 5						
				5 upwards.						
				Under 5						
				5 upwards.			• • •			
				Under 5						
				5 upwards.						
				Under 5						
				5 upwards.						1_
				Under 5						
				5 upwards.						
				Under 5						•••
				5 upwards.						
				Under 5						• •4
				5 upwards.						-
				Under 5						1
				5 upwards.						-
				Under 5						
		-		5 upwards.						-
Totals	2,640	2,640	68	Under 5			$\cdot \cdot \cdot \cdot \cdot \cdot$			
				5 upwards.	1	3	3			

INFECTIOUS SICKNESS, coming to the knowledge of the Medical an District; classified according to Diseases, Ages, and Localities.

IN I HE TH.	EACH MED	Loc.	ALITY Offi	CER			N Ном	UMBE ES IN	THE	SEV	H CAS ERAL SOLAT	Loc	ALITI	ES F	or T	1 THE	EIR MENT	2
8	9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12	13
VER	s.								20		F	EVER	s.					
Relapsing.	Puerperal.	Cholera.	Erysipelas.			Small Pox.	Scarlatina.	Diphtheria.	Membranous   Croup.	Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.		
••••	• • • • •		2			••••				*****				•••••			•••••	• • • • •
• • • • •										••••								
• • • •				•		••••		1	• • • • •	• • • •		••••						• . • •
• • • •																• • • • •	:	
						••••	• • • • •			• • • •								
										• • • • •							-	
										• • • • •	-							
	••••									• • • •								
										• • • •				••••				•••
		••••	2					PMG % 0 0 0		•••			••••	• • • •		•••		

pp. 191 et seq.

					1881.	1891.
Area in Statute Acres				• •	833	839
Number of Inhabited Hou	ises	• •		v •	1,396	1,657
" Uninhabited	,,	• •	• •	• •	113	156
" Building	"	• •	• •	ė ė	12	18
Population	• •	• • .	• •		6,874	8,087
Males	• •	• •	• •	<b>&gt; 8</b>	3,223	3,796
Females		• •	• •		3,651	4,291
Persons to a House	• •	• •		• •	4.94	4.88

### BIRTHS AND BIRTH-RATE.

During the year 1899, the births of 241 children were registered; of these 127 were male, and 114 were female.

Estimating the population in the middle of the year at 9,000, the birth-rate was equal to 26.8 per 1,000 persons living.

The births and birth-rate in the district during the past ten years are here shown:—

Year.	Births.	B	irth-rate.		Year.	Births.	Birth-rate.
1890	 227		28.5		1895	 221	 25.8
1891	 232	• •	28.6		1896	 215	 24.8
1892	 211		25.7		1897	 255	 28.9
1893	 220		26.3		1898	 236	 26.5
1894	 229		$27 \cdot 1$	ĺ	1899	 241	 26.8

The mean annual number of births is 229, and the mean annual birth-rate is 26.9 per 1,000 persons living.

In England and Wales the birth-rate during the year was 29.3 per 1,000 persons living, a rate 1.0 per 1,000 below the mean rate in the ten years, 1889-98, and lower than in any other year on record.

In each Quarter of the past six years the births were thus registered:—

	1894.	1895.	1896.	1897	1898.	1899.
First Quarter	 67	59	53	64	61	62
Second Quarter	 <b>5</b> 8	55	54	66	50	49
Third Quarter	 54	49	61	58	56	70
Fourth Quarter	 50	58	47	67	69	60
	-					N==
Total	 229	1	215	$25\overline{5}$		241

### GENERAL MORTALITY.

There were 151 deaths registered in this district during the year 1899, but from this number must be deducted the death of one person in Horsham Cottage Hospital not belonging to this district, and to this number must be added the deaths of thirteen persons in Horsham Workhouse, which is outside the urban area, leaving the corrected total at 160.

Estimating the population at 9,000, the death-rate was equal to an annual rate of 17.8 per 1,000.

In country places throughout England and Wales the rate of mortality in 1899 was equal to 16.3 per 1,000 of population, or 0.5 per 1,000 below the mean rate in the ten years, 1889-98.

In each quarter of the past six years the deaths were thus recorded:—

	1894.	1895.	1896.	1897.	1898.	1899.
First Quarter	 31	45	35	34	45	37
Second Quarter	 <b>27</b> .	33	22	32	26	28
Third Quarter	 29	30	30	40	34	43
Fourth Quarter	 25	39	39 •	21	26	<b>5</b> 2
	112	147	126	127	131	160

The deaths and death-rate in the past ten years are here shown:

Year.		Deaths.	J	Death-rate.	Year.	Deaths.	Death-rate.
1890		131		16.4	1895	 147	 17.1
1891		163		20.1	1896	 126	 14.5
1892	, •	163		19.7	1897	 127	 14.4
1893		161		19.3	1898	 131	 14.7
1894		112		$13 \cdot 2$	1899	 160	 17.8

The mean annual number of deaths is 142, and the mean annual death-rate is equal to 16.7 per 1,000 persons living.

### INFANT MORTALITY.

There were 34 deaths of infants under one year of age, and as there were 241 births, the rate of infant mortality was equal to 141 per 1,000 children born.

In 1892 the ratio was 123, in 1893 it was 136, in 1894 it was 118, in 1895 it was 109, in 1896 it was 79, in 1897 it was 133, and in 1898 it was 106 per 1,000 registered births.

In England and Wales the proportion of deaths under one year of age to registered births was 163 per 1,000 during the past year, the mean proportion in the preceding ten years having been 151.

#### ZYMOTIC MORTALITY.

There were four deaths from zymotic diseases in the case of those which are notifiable, and there were twenty-one in the other class where the number of cases cannot be obtained. The zymotic mortality was at the rate of 2.78 per 1,000.

					Cases.	Deaths.
	Small Pox			 	none	none
	Scarlatina				9	none
	Diphtheria			 	27	3
	Membranou	is Cr	oup	 	none	ncne
	(Typhus			 	none	none
$\ddot{\mathbf{s}}$	Enteric			 	2	1
Fevers.	{ Continued			 	none	none
Fe	Relapsing			 	none	none
	Puerperal			 	none	none
	Cholera			 	none	none
	Erysipelas			 	none	none
			Total	 	38	4

In the other class the deaths were thus recorded:—

Measles		 none
Whooping Cough .		 none.
Diarrhœa and Dysen	tery	 21
Rheumatic Fever .		 none
	Total	21

The Infectious Disease (Notification) Act, 1889, and the Infectious Diseases (Prevention) Act, 1890, came into operation on the 8th day of July, 1896.

These Acts are now, therefore, adopted throughout the whole of the combined district of West Sussex.

The prevalence in each quarter of 1899 and in 1897-8 of each notifiable disease is shown in the following table:—

			2nd Qr.	3rd Qr.	4th Qr.	Total 1899.	1898.	1897.
Small Pox								
Scarlatina				2	7	9	3	1
Diphtheria			2	9	16	27	5	6
Membranous Crou	ap '			-				
Enteric Fever		1	1			2	1	
Continued Fever							-	
Puerperal Fever								
Erysipelas			-					
Total		1	3	11	23	38	9	7

### HORSHAM COTTAGE HOSPITAL.

This useful and excellent Institution was erected by public subscriptions and donations at a total cost of £2,089 12s. 5d. It is situated in Hurst Road, and the buildings were opened in June, 1892; the first patient was admitted on July 13th, 1892.

The mean cost of each patient is £5 18s., and there are eight beds, the mean annual cost of a bed is £47 4s.

											in-Patiei	its.	
	Rec	ceipt	s.	Expe	nditi	ıre.	Ва	lance	<b>.</b>	Hor-	Other		
Year.	£	s.	d.	£	S.	d.	£	s.	d.	sham.	Parishes.	Total.	Deaths.
1892	283	18	1	134	4	11	149	13	2	14	12	26	None
1893	401	0	5	330	16	6	70	3	11	26	34	60	2
1894	386	17	0	365	11	9	21	5	3	34	29	63	4
1895	429	1.0	5	412	4	9	17	5	8	40	25	65	3
1896	396	0	4	389	17	2	6	3	2	38	24	62	3
1897	411	10	11	340	7	9	71	3	2	38	34	72	3
1898	435	17	3	368	10	8	67	7	6	39	32	71	3
1899	410	3	9,	515	10	8	105	6	11	36	24	60	1

The facts regarding the Water Supply and the Sewerage System have been kindly supplied me by Mr. Renwick, the Town Surveyor, who has so efficiently carried out the work.

### WATER SUPPLY.

New services laid for domestic use	51 7
	58
No. of Gallons of Water pumped to the Star Reservoir No. of Gallons of Water pumped to waste for machinery repairs purposes	54,770,834 83,594
No. of Gallons of Water pumped, total	54,854,428
Greatest Number of Gallons pumped in one week (August 16th to 22nd)	1.323.000

Samples of the water have been submitted to the Public Analyst for examination, and he has reported upon them to the Council.

The water pumped to the Reservoir during the year was 1,578,691 gallons less than the quantity pumped during 1898; and this although 58 new services were connected to the mains. This is accounted for in a great measure by the stoppage of waste caused by defective fittings, and leaks both in service pipes and mains.

The mains in Bishopric and Springfield Road have been re-laid. In both cases the old mains were in very bad condition.

Analytical Report by Dr. Otto Hehner on a sample of water received on June 24th, 1899.

HORSHAM TOWN SUPPLY: 100,000 parts of the water were found to contain:—

Chlorine .					2.20	
Sulphuric Acid.					2.40	
Nitric Acid					0.52	
Free Ammonia					0.0020	
Albuminoid Am	monia				0.0057	
Oxygen absorbed	fromperma	angan	ate in 15	min.	0.0388	,
Ditto in 4 hours.					0.0664	
Total Solids, drie	ed at 212 F	٠			35.44	
Loss of Ignition					2.88	
Total Hardness					1.0	
Appearance in 2	ft. tube.		yellowi	ish, soi	mewhat turl	$\operatorname{oid}$
Reaction				some	ewhat alkali	ine
Total number of	f organism	s per	cubic ce	enti-		
${f metre}$					209	
Sewage bacteria					none	

This supply contains but a very moderate amount of organic matter, and does not show either from the chemical analysis or from the bacterioscopic examination any indications of organic (sewage) pollution.

The supply is exceedingly soft, and is practically devoid of hardness. The mineral contents, which are moderate, consist entirely of salts of sodium, mainly sodium carbonate, which gives to the water a decidedly alkaline reation. The composition of the supply is that of a perfectly pure and unpolluted water from the lower Tunbridge beds.

On comparing the above analysis with one made by me in 1897, it will be seen that the water has undergone practically no change, but the appearance of the water is at the present time somewhat better than it was formerly.

The supply is still turbid from the presence of exceedingly minute particles of mineral matter. This turbidity is entirely harmless.

The supply is very well adapted for drinking, cooking, and washing.

#### SYSTEMATIC INSPECTION.

The following is the summary of work done during the year 1899, under the supervision of the Sanitary Inspector:—

New dwelling houses completed and certificated	38
Matters reported to the Council	106
Notices served	8
Pan and container closets replaced by closets of modern	
construction	7
Pan and container closet fixed in contravention of by-laws,	
and which the Council compelled property owner to	
remove	1
Defective W.C. fittings	3
Defective W.C. fittings, proceedings threatened	1
W.C.'s which have been improved or provided with flushing	
cisterns	8
Nuisance from disused W.C., the trap becoming dry	1
Choked soil drains	8
Defective soil drains	$\frac{2}{2}$
Defective soil drains beneath floors diverted	
Cesspools abolished	2
Insanitary sinks altered and improved	23
Sink drains connected to soil, drain without any trap	4
Bell traps replaced by stoneware gully traps	68
Cellar drain connected to soil drain without any trap	1
Flooded cellars, flushed and cleaned by Council	2
Defective drain in roadway re-laid by Council	1
Brewery drain diverted from storm water drain to sewer	1
Tannery drain re-laid	1
Houses re-drained under inspection	14
Cases of over-crowding	3
Accumulations of refuse	3
Nuisances arising from keeping pigs	4
Nuisances arising from killing pigs	1
Nuisances arising from keeping poultry	1
Cases of notified diseases attended to	35
Cases of notified diseases, rooms disinfected after	16
Dininfectants supplied, cases	26
A A .	

### DRAINAGE AND SEWAGE.

A drain from the brewhouse and cellars of West Street Brewery has been diverted to the sewers, as the liquor from this drain found its way into the river, and did much to render it foul.

At the Tannery a very defective drain from the tan pits has been relaid in stoneware socket pipes with cement joints. The leakage from this drain found its way into a brook, and so to the river.

At the Gas Works it has been found that there exists a drain connected to the main storm water drain in Springfield Road, and into which at times foul liquor from the gasometer tanks flows. As the

liquor ultimately gets into the river, notice has been served upon this Gas Company to disconnect the drain from our storm water drain, and to connect it with the main sewer.

Several storm water drains have been cleaned and altered, and many new street gullies have been provided.

At the Broadbridge Sewage Farm during the year 50,439,536 gallons of sewage were treated.

Excellent crops are obtained, and the farm appears to be in every way a success.

### PUBLIC ELEMENTARY SCHOOLS.

There are five Public Elementary Schools which are in a fair condition.

#### COMMON LODGING HOUSES.

There are two Common Lodging Houses, both of which are well kept.

### BAKEHOUSES.

These are twenty-two in number, and they are kept in good sanitary condition.

### SLAUGHTER HOUSES.

There are eight Slaughter Houses in the district, and these have been inspected during the year and kept fairly.

#### COWSHEDS AND DAIRIES.

There are ten Cowsheds and Dairies, but they are nearly all on a small scale. There are twenty-five dairymen and cow-keepers on the register.

#### PROCEEDINGS BEFORE THE MAGISTRATES.

No proceedings were taken before the Magistrates during the year.

### INQUESTS.

Inquests were held in eleven cases:—Male, 42 years, apoplexy; male, 5 years, sickness and diarrhea, due to intussusception caused by worms; female, 40 years, heart failure; male, 1 day, accidently suffocated in bed; male, 1 year, convulsions; male, 8 months, syncope; male, 8 months, syncope; female, 73 years, shock, fractured thigh; female, 21 years, gangrene, blood poisoning; female, 34 years, liver diseases; male, 61 years, accidently run over and killed on railway.

There were seven deaths returned as "not certified" during the year:—Female, 5 minutes, born prematurely; female, 1 hour, born prematurely; male, 23 months, diarrhea; female, 8 months, diarrhea; female, 2 months, diarrhea; male, 60 years, heart disease; female, 86 years, bronchitis.

Table 1.—Showing the Deaths at various groups of ages in the eight years, 1892-99.

Year.	At all ages.	Under 1 Year.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 & upwards.
1892 1893	$\begin{array}{c} 163 \\ 161 \end{array}$	26 30	$\begin{array}{c} 20 \\ 21 \end{array}$	6 10	9 5 3	42 47	60 48
1894	112	14	7	3	3	44	41
1895	147	24	21		8	43	45
1896	126	17	10	$\begin{array}{c} 6 \\ 8 \\ 2 \end{array}$	7	36	48
1897	127	34	9		5	36	41
1898	131	25	8 8	47	5	35	54
1899	160	34	8	7	8	48	55
Total	1,127	204	104	46	50	331	392

Table 2.—Showing the Deaths from various causes in the eight years, 1892-99.

					Croup.		F	ever	s.					Cough.		Fever.		
Year.		Small Pox.	Scarlatina.	Diphtheria.	Membranous	Typhus.	Enteric.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Co	Diarrhœa.	Rheumatic Fe	Influenza.	Total.
1892			-	2										4	3	1	$\overline{12}$	22
1893		4		3	2		3	Marchingura da.				1	1	2	3			19
1894	• • •		-	2					*****	1		_			,		4	7
1895		****	AMMINION							_	'	-	9	6	3		5	23
1896				2			1				_	1	3	2	2			11
1897		-		1			-	700-0-000 1						5	3	spin-min.	*	9
1898		-	***************************************									erane Mark	1	1	10	-	6	18
1899			Anddonadan	3			1								21		6	31
Total		4		13	2		5			1		2	14	20	45	1	33	140

Table 3.—Showing the Deaths and Death-rate from all causes and from various causes in the eight years, 1892-99.

ate m	Heart Disease.	206	156	177	140	242	170	180	256
Mean Annual Death-rate per 100,000 living from	Бинд Бівеяяе.	437	300	142	291	127	136	146	177
	.sisidtd4	134	180	118	128	115	79	168	145
	Symotic Disease.	121	227	35	210	127	102	135	278
	,яэгвэгіП ПА	1,973	1,928	1,324	1,713	1,452	1,438	1,472	1,778
Deaths during the years 1892-99 from	Heart Disease,	17	13	15	12	21	15	16	23
	ьявэгіП ұпиЛ	98	25	[5]	25		12	Lo	16
	Phthisis.	11	<u> </u>	10	11	10	1-	15	<u></u>
during	Nymotic Disease.	10	19		18		6	12	25
Deaths	All Diseases.	163	191	112	147	126	127	131	160
	Population in middle of Period,	8,260	8,350	8,460	8,580	8,675	8,830	8,900	000,6
		:			4	<i>a</i>	•	•	•
		•	•	:	:	:	:	:	:
1	PERIOD	•					:	:	:
	PE	1892	1893	1894	1895	1896	1897	1898	1899
1									

(A)—Table of DEATHS during the Year 1899, in the HORSHAM

	Мо			FROM	ALL						
				OINE							
Names of Localities adopted for the purpose of these Statistics; Public Institutions being shown as separate localities.	At all ages.	Under 1 year.	l and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and up- wards.		Small Pox.	Scarlatina.	
(a)	(b)	(c)	(d)	(e)	( <i>f</i> )	(g)	(h)	(i)	Sm	Sca	
Horsham Urban District	150	34	8	7	8	44	49	Under 5 5 upwards.			
Horsham Cottage Hospital	1	_		_	1		_	Under 5 5 upwards.			
								Under 5 5 upwards.			
								Under 5 5 upwards.			:
								Under 5 5 upwards.			:
								Under 5 5 upwards.			
								Under 5 5 upwards.			
								Under 5 5 upwards.			
								Under 5 5 upwards.			
								Under 5 5 upwards.			
Totals	151	34	8	7	9	44	49	Under 5 5 upwards.			
			Th	ie su	bjoin	ed n	umbe	rs have also to	be t	aken	i
Deaths occurring outside the District among persons belonging thereto	s 10		_	_	_	4	6	Under 5 5 upwards.			
Deaths occurring within the District among persons not belonging thereto	s 1	-	_	_	1	_		Under 5 5 upwards.			

# BAN DISTRICT, classified according to Diseases, Ages, and Localities.

Hutario or		Continued.	Relapsing.	.   Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	61 Diarrhea and Dysentery.	Rheumatic Fever.	Phthisis.	Bronchitis, Pneumonia, and Pleurisy.	Heart Disease.	Influenza.	Injuries.	All Other Diseases.	Total.
Rutorio or	Typhoic	Continued.	.   Relapsing.	.   Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.		Rheumatic Fever.	hthisis.	ronchitis, neumonia, nd Pleurisy	eart isease.	fluenza.	njuries.	ll Other iseases.	OTAL.
	1								19			m m a		In	H	A	H
	1											1			1	20	42
									2		11	15	20	6	2	49	108
										1		4					1
				•													
	• • • •	• • • • •	* * * * * * *		• • • •	• • • • •	* * * * * * *			• • • • •	• • • • •				• • •	• • • • • •	•••••
- -																	
	• • • • •	• • • • •	••••	• • • • •	• • • • •	• • • • • •	• • • • •		,	• • • • • •	• • • • •					• • • •	,
• •		• • • • •		• • . • •	• • • • •	• • •		• • • • • •		••/••	• • • • • •		* * * * *		• • • •		• • • • • •
- -																	
• •	• • • •	• • • • •			• • • • •			• • • • •	• • • •		• • • • • •						
•	• • • •	• • • • •		•••••	• • • • •	• • • • •	• • • • • •		• • • • • •	• • • • •	• • • • • •		• • • • •	• • • • •	• • • • •	• • • • •	
- -									19			1			1	20	42
	1	• • • • •		•••	• • • • • •		• • • • •		$\frac{\dots}{2}$	 1	11	15	20	6	2	49	109
in	jud	ging	of t	he al	oove	recor	ds o	of mo		tv.							
	J 4.0	06															
••	• • • •	• • • • •		•••••	• • • • •	•••••	• • • • •	• • • • •	• • • • •	• • • • •	$\frac{\ldots}{2}$	• • • • • • •	3	• • • • •	• • • • •	5	5
-																	-

# (B)—TABLE OF POPULATION, BIRTHS, AND OF NEW CASI

Officer of Health, during the year 1899, in the HORSHA

Names of Localities adopted		LATION L AGES.		Acad	NEW CASES OF S					
for the purpose of these Statistics; Public Institutions		18.4	Bi.	Aged under 5	1	2	3	4	5	
being shown as separate localities.	Census	1899.	Registered Births.	or over 5.	Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Enteric or H
(a)	(b)	(c)	(d)	(e)	<u></u>			CE		=
Horsham Urban District	8,087	8,990	241	Under 5		2	5		• • • • • •	
			•	5 upwards.		7	22			
Horsham Cottage Hospital	mprediction or	10		Under 5 5 upwards.		••••	• • • •	• • • •	• • • • •	
				Under 5						
				5 upwards.						
				Under 5						
				5 upwards.		• • • • • •	••••			
				Under 5						
				5 upwards.						
6	,			Under 5				,		
				5 upwards.		• • • • • •				
				Under 5						
				5 upwards.						j
				Under 5						
				5 upwards.						
				Under 5						
				5 upwards.						
				Under 5						
				5 upwards.						
				Under 5						
				5 upwards.						
Totals	8,087	9,000	241	Under 5		2	5			
		, 00	~ ! !	5 upwards.		7	22			
										11

INFECTIOUS SICKNESS, coming to the knowledge of the Medical in District; classified according to Diseases, Ages, and Localities.

						1	. g . Televis		to the death of the second									- Village Aug
Number of such Cases Removed from their Homes in the several Localities for Treatmen in Isolation Hospital.								IR MENT	•									
8	9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12	13
EVER	s.								02		F	EVEF	RS.		-			
QQ Q	37		las.			ox.	na.	ria.	nou		or .	ed.	1g.	al.		as.		
Relapsing.	Puerperal.	lera	Erysipelas.			Small Pox.	Scarlatina.	Diphtheria.	nbra up.	hus	eric	tinu	ıpsiı	rper	lera	sipe		
Rel	Pue	Cholera.	Ery			Sma	Sca	Dip	Membranous Croup.	Typhus.	Enteric o Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.		
		•••••	2		• • • • • •		• • • • •		• • • • •	• • • • •		••••	•••••	• • • • •	•••••	•••••		
			•••••			• • • • • •		• • • • •	• • • • •	••••		• • • • •	••••	• • • • •	••••	• • • • •	• • • • • •	
••••								• • • • •		• • • • •			• • • • • •	• • • • • •		•••••	• • • • • •	
			103															
	••••		• • • • •	• • • • •									••••	• • • • •				
														-			-	
											,							
			-				1							hard sign of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer of the last transfer	-			
	• • • • •	• • • • • •	•••••			• • • • • • {		• • • • • •	• • • • •	• • • •	•••••		• • • • • • •	•••••	•••••	•••••	••••	
•••	••••				• • • •			• • • • •	• • • • •	••••						•••••	• • • • •	••••
-																		
	• • • • •		• • • • •						• • • • • •		• • • • • •	• • • •		•••••				
								-					_		-			
											• • • • • •							
							1											
			2					,					1					
				1							)	<u> </u>						

pp. 207 et seq.

Area in Sta	atute Acres			 	1891.
Number of	Inhabited Ho	ouses		 	825
,,	Uninhabited	,,	• •	 	37
,,	Building	"		 	2
Population				 • •	4,240
Males				 • •	2,132
Female	es			 	2,108
Persons to	a House		\	 	5.14

Portslade-by-Sea is now an Urban District, it is a small, but populous area, cut out of the old Parish of Portslade, which was in the Steyning East Rural District, on March 31, 1898; the new Portslade Parish remains as a Rural area, with a population of about 250.

#### BIRTHS AND BIRTH-RATE.

During the year 1899, the births of 193 children were registered; of these 94 were male, and 99 were female.

Estimating the population in the middle of the year at 5,000, the birth-rate was equal to an annual rate of 38.3 per 1,000 persons living.

In England and Wales the birth-rate during the year was 29.3 per 1,000 persons living, a rate 1.0 per 1,000 below the mean rate in the ten years, 1889-98, and lower than in any other year on record.

The following table shows the births and birth-rate during three periods:—

Birth-rate:		1	Births.	,	, Birth-rate.					
1877-84. 18	93-97.	1897.	1898.	1899.	1897.	1898:	1899.			
39.2	34.9	164	177	193	34.3	36.5	38.3			

The births were thus distributed in 1898 and in each quarter of 1899:—

	1898.	М.	F.	Total.
First Quarter	 28	24	29	<b>5</b> 3
Second Quarter	 58	19	33	52
Third Quarter	 52	19	17	36
Fourth Quarter	 39	32	20	52
Total	 177	94	99	193

#### GENERAL MORTALITY.

There were 90 deaths registered in this district, but to this number must be added the deaths of three persons in New Shoreham Workhouse belonging to this district, leaving the corrected total at 93.

Estimating the population at 5,000, the death-rate was equal to an annual rate of 18.3 per 1,000.

In country places throughout England and Wales the rate of mortality in 1899 was equal to 16.3 per 1,000, or 0.5 per 1,000 below the mean rate in the ten years, 1889-98.

In each quarter of the past year the deaths were thus recorded:—

	1898.	$\mathbf{M}$ .	F.	Total.
First Quarter	 3 <b>6</b>	8	11	19
Second Quarter	 $24^-$	9	9	18
Third Quarter	 19	11	14	25
Fourth Quarter	 16	11	20	31
	Name and Additional Property of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of the Party of	Willer Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement and Statement		
	95	39	<b>54</b>	93

The deaths and death-rate in the past six years are here shown:

Year.			Deaths.		Death-rate.
1894			55	 	12.5
1895			55	 	11.4
1896	•		7.2	 	15.5
$\frac{1897}{1896}$			80	 • •	16.7
1898	• •	• •	95	 	19.6
1899	• •	• •	93	 	18.3

# INFANT MORTALITY.

There were 24 deaths of infants under one year of age, and as there were 193 births, the rate of infant mortality was equal to 255 per 1,000 children born.

In England and Wales the proportion of deaths under one year of age to registered births was 163 per 1,000 during the past year, the mean proportion in the preceding ten years having been 151.

### ZYMOTIC MORTALITY.

There was one death from zymotic disease in the case of those which are notifiable, and there were three in the other class where the number of cases cannot be obtained. The zymotic mortality was at the rate of 0.80 per 1,000.

					Cases.	Deaths.
	Small Pox			 	none	none
	Scarlatina			 • ,	17	none
•	Diphtheria			 	8	none
	Membranou	is Cro	oup	 	none	1
	(Typhus			 	none	none
<b>32</b>	Enteric			 	4	none
Fevers.	{ Continued			 	none	none
E	Relapsing			 	none	none
	Puerperal			 	1	none
	Cholera			 	$\mathbf{none}$	none
	Erysipelas			 	none	none
			Total	 	3 <b>0</b>	1

In the other class the deaths were thus recorded:—

Measles	• •		 none
Whooping Cou			 <b>2</b>
Diarrhæa and	Dysentery		 1
Rheumatic Fev	ver		 none
	T	atal	3

The prevalence in each quarter of 1899 of each notifiable disease is shown in the following table:—

		1st Qr.	2nd Qr.	3rd Qr.	4th Qr.	Total.
Small Pox					-	
Scarlatina		5	1	2	9	17
Diphtheria		2	.3	<b>2</b>	1	8
Membranous Croup		**************************************		annual frances	-	
Enteric Fever		2	aphreti-ma	2		4
Continued Fever	• •			-	· · · · · ·	
Puerperal Fever		1	-	-	4040047-7040	1
Erysipelas						-
		-	- Chinada			
Total		10	4	6	10	<b>3</b> ()

### WATER SUPPLY.

The District is well provided for by a constant supply of good water from a main under pressure supplied by the Brighron Corporation, and upon its excellent quality the good health of the district mainly depends.

#### DRAINAGE AND SEWAGE.

Messrs. Cooke & Co's contract of £17,545 for the construction of the main intercepting sewer and outfall for the combined system of Portslade-by-Sea and Southwick is being carried out, and this work will be completed during the present year.

Their contract of £5,584 for laying street drains in Portslade-by-Sea has been executed, and while this work was in progress an opportunity was given owners of property to have connections brought up to the boundary of their premises by the Contractor, while the trenches were opened under a schedule of prices, obtainable from the Surveyor.

Twenty-three owners availed themselves of this opportunity, the connections being brought up to the boundary of thirty-one houses ready for connection to the house drains as soon as the outfall is completed.

The intercepting sewer commences at the eastern extremity of the district, and is continued along the Wellington Road and Lower Shoreham Road, through Fishersgate to the outfall in Southwick.

This sewer commences with 12 inch pipes increasing to 18 inches, and finishing in Southwick Parish with a 6 feet circular brick tank. The system provides that the surface water shall be kept out of the sewers as far as possible. It will prove a great relief to the district when the scheme is in working order, the subsoil of the district having become so saturated with sewage, many of the old cesspools have now quite ceased to receive any soakage whatever, and the new ones being very shallow require constant emptying.

Below is an abstract from the Surveyor's books showing the expense and cost attached to the system adopted which has proved so successful in the district, and upon this mainly lies the good health which prevails in the district.

#### COST OF THE BEXLEY SYSTEM.

Date.	No. Emptied		Horse hire.		La	Disinfectants.				
		$\pounds$	s.	d.	£	S.	d.	£	s.	d.
1896	287	92	8	5	55	0	9			. 0
1897	654	183	()	10	109	3	7	8	17	3
1898	822	178	0	$8\frac{1}{5}$	112	5	$9\frac{1}{5}$	8	5	2
1899	1128	181	3	1~	133	. 5	4		7	$\overline{6}$

An additional pump and hose is now used in distributing the sewage and storm water (conveyed through a 9 inch sewer from property at the northern end of the district) on to arable land to minimise the contents overflowing to the northern boundary of Old Shoreham Road. The cost of this work for the year has been £63 2s.

#### SCAVENGING AND CLEANSING.

The work of scavenging is well done, and the streets are kept clean.

A contract is entered into for removing the house refuse fortnightly on a street schedule, under the superintendance of the Sanitary Inspector, and all refuse and ashes have to be removed to a fit and proper place provided by the Contractor for its reception north of the railway, and 100 yards from any inhabited house. The tender for the year was £100, the increased amount being accounted for by the rapidly increasing neighbourhood.

Most of the houses have back yards in which there is a fixed receptacle, but to these yards there is no means of access, except through the houses. The Contractor's men have to pass through the kitchen two or three times to empty an ashpit, and this is much objected to by the inmates, especially in wet and stormy weather.

A more sanitary system would be to do away with the wet middens and the provision of a receptacle of galvanized iron or other non-absorbent material, fitted with a cover to receive the refuse.

## COWSHEDS AND DAIRIES.

Regulations under the Contagious Diseases (Animals) Act, 1886, and the Dairies, Cowsheds, and Milk Shops Order of 1885 were adopted on April 26th, 1887, and came into force on June 1st, 1887.

#### BAKEHOUSES.

These have been periodically visited, and any breach of the Act has been duly rectified. Two are not occupied.

#### SLAUGHTER HOUSES.

The two Slaughter Houses are frequently visited and found clean, the refuse of offal being removed as soon as possible. The walls are regularly limewashed. One carcase of a cow was condemned, and buried in the presence of the Sanitary Inspector.

#### MARGARINE ACT.

Very little is sold, and in places where sold the provisions of the Act of 1887 is observed.

#### INFECTIOUS DISEASE.

All cases of Infectious Disease have been enquired into, and the necessary precautions carried out with regularity and efficiency by the Sanitary Inspector.

Disinfectants are supplied free of charge.

The disinfection of the premises is afterwards carried out, and the notices under Section 36, Public Health Act, 1875, served where necessary for cleaning and purifying of the premises.

#### HOSPITAL ACCOMMODATION.

The Hove Corporation (by agreement) provides two beds at the Hangleton Hospital for this District, on the following terms:

- 1. The Council to have the use of two beds in the Hove Hospital, Hangleton. Provided that whenever and as long as there are 22 patients in all in the Hospital the use is to be limited to one bed, and whenever and as long as there are 28 patients in all in the Hospital the user is to cease for the time being.
- 2. A fixed charge to be paid by the Council for retention of the above beds.
- 3. When any bed is actually occupied a weekly sum to be also paid by the Council at the rates set forth in the under-mentioned scale.

SCALE :- Weekly sum to be paid for each bed actually occupied :-

If patient is suffering from—

Small Pox		• •	£5	5	0
Typhoid			3	3	0
Diphtheria			3	3	0
Scarlet Fever	• •	9 6	2	2	0
Other Zymotic I	Diseases		9	2	0

Actual expense incurred in the removal of the patient and in the use of the ambulance is also paid by the Council.

This Council also pays a retaining fee of £30 per year to the Hove Council for the two beds at the Hospital.

The arrangement has always worked very satisfactory, and although the Hospital on some occasions has been full, a bed has always been provided by the Hove Council on very short notice.

### NEW HOUSES.

Twenty-nine new houses have been erected, and three new roads constructed under the By-laws in force.

#### HOUSE-TO-HOUSE INSPECTION.

This work is carried out as occasion permits during the year.

## PUBLIC MORTUARY.

Under Section 141 of the Public Health Act, 1875, a much needed Mortuary has been provided for the district.

The building has been erected on a site at the Council's depôt at a cost of £49, from plans prepared by the Surveyor, Mr. A. Taylor Allen. It is provided with gas and water, and it is sufficiently lighted and ventilated.

#### BY-LAWS IN FORCE IN THE DISTRICT.

By-laws were made on October 4th, 1892, by the Steyning Union, acting as the Rural Sanitary Authority with respect to new streets, and Buildings, and in compliance with the order of the Local Government Board remains in force until such times that the new By-laws made during the year have been allowed by the Local Government Board.

By-laws were also made by the above Authority in 1889 for the prevention of Nuisances, arising from snow, filth, dirt, ashes, and rubbish, and for the prevention of the keeping of Animals on premises so as to be injurious to health, these were allowed by the Local Government Board on February 21st, 1889, and still remain in force.

The Council has adopted the new Model Regulations with respect to Dairies, Cowsheds, and Milkshops; these will come into force on and after February 10th, 1900, when the old regulations will cease to exist.

#### SYSTEMATIC INSPECTION.

The following is a list of the routine work during the year 1899, as recorded in the books of the Sanitary Inspector, Mr. A. Taylor Allen:

	No. of Houses and Premises inspected	 294
	No. of Houses, &c., reported	 68
	No. of Nuisances abated by verbal notice	 37
	No. of Nuisances abated by written notice	 17
	No. of Houses disinfected and fumigated	 34
	No. of Houses cleansed and whitewashed	 42
	No. of Defective drains taken up and relaid	 10
	No. of Insanitary and defective w.c.'s remedied	 3
	Animals so kept as to be a nuisance	 3
(	Cases of Overcrowding reported and abated	 4
	Houses reported without Water Supply	 1

## INQUESTS.

Inquests were held in nine cases:—Male, 55 years, syncope, sudden failure of heart; male, 9 weeks, inability to assimilate food; female, 69 years, heart failure; male, 3 years, convulsion fit from flatulent dyspepsia; male, 10 years, accidentally drowned while bathing; female, newly born, asphyxia, want of attention at birth; female, 61 years, heart failure; male, 14 years, asphyxia, cart wheel resting on chest; female, newly born, want of attention at birth.

There were no deaths returned as "not certified" during the year.

Table 1.—Showing the Deaths at various groups of ages in the five years, 1891-95, and in 1896-99.

Year.	At all ages.	Under 1 Year.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 & upwards.
1891-95	342	112	43	20	13	81	73
Per 1,000	1,000	328	126	58	38	237	213
1896	72	26	5	3	1	20	17
1897	80	23	8	6	2	. 25	16
1898	95	34	14	4	4	21	18
1899	93	24	10	5	7	20	27

Table 2.—Showing the Deaths from various causes in the five years, 1891-95, and in 1896-99.

					Croup.		F	ever	s.					ngh.		ver.		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Ye	Year.		Scarlatina.	Diphtheria.	Membranous	Typhus.	Enteric.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhea.	Rheumatic Fever.	Influenza.	Total.
1891	-95		2	8	3	·	3	white the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of				2	9	16	15	3	9	70
1896	* * .	2	-	1			1			ematerature,			1	2	3			10
1897	• • •		5	with the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of t									8	1		1	1	11
1898	• • •			1		_	1			1			10		6		2	21
1899	• • •				1							unidous surro		2	1		2	6
То	tal	2	2	10	4		5			1		2	28	21	25	4	14	118

TABLE 3.—Showing the Deaths and Death-rate from all causes and from various causes in the five years, 1891-95 and in 1896-99.

inte m	Heart Disease.	147	215	230	165	100	
Mean Annual Death-rate per 100,000 living from	. Бавъзгі ВипД	248	237	508	247	340	
Annual 0,000 liv	Phthisis.	, 101	43	146	69	130	
Mean A	Symotic Jagase,	280	215	508	392	80	
	.яэвиэгіП ПА	1,572	1,548	1,673	1,958	1,830	
1-99	Heart Disease.	69	0	yannan   	$\infty$	70	
ng the years 1891-99 from	.əsaəsiC ymm.I	رَّ 4	<del></del>	10	Ċ.I		
the ye from	.sisidədT	55	©1	l	£.	9	
Deaths during	Nymotic Jisease,	19	10	0	61	4	
Death	All Diseases.	342	7.5	08	95	60	
1	Population in middle of Period,	4,350	4,650	4,780	4,850	2,000	
		•	•	• • • • • • • • • • • • • • • • • • •	•		russian de servic
	). OD.		•	:	•	:	
	PERIOD	1891-95	1896	1897	8981	1899	

(A)—Table of DEATHS during the Year 1899, in the PORTSLADE-I

	Mo			FROM			SES			
Names of Localities adopted for the purpose of these	ages.	year.	ider 5.	under 5.	under .	mder	up-		1	2
Statistics; Public Institutions being shown as separate localities.	At all ag	Under 1 year.	1 and under	5 and ur	15 and u 25.	25 and under 65.	( 20)		Small Pox.	Scarlatina.
(a)	(b)	(c)	(d)					(i)	Sma	Scar
Portslade-by-Sea Urban District	90	24	10	5	7	19	25	Under 5		
I OI ONING TO			-					5 upwards.		
•								Under 5		
								5 upwards.		
								Under 5		
								5 upwards.		
								Under 5		,
				-anguages aus				5 upwards.	,	
								Under 5		
								5 upwards.		
								Under 5		
								5 upwards.		
				-				Under 5		
								5 upwards.		
								Under 5		
								5 upwards.		
								Under 5		
								5 upwards.		
								Under 5		
								5 upwards.	••••	
								Under 5		
Totals	90	24	10	5	7	19	25	5 upwards.		
			Th	e su	bjoin	ed ni	umbe	ers have also to	be t	akeı
Deaths occurring outside the District among persons belonging thereto	3	_				1	2	Under 5 5 upwards.		
Deaths occurring within the					-		-			-
Deaths occurring within the District among persons not belonging thereto								Under 5 5 upwards.		
										-

# URBAN DISTRICT, classified according to Diseases, Ages, and Localities.

R <b>TA</b> L	TALITY FROM SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.																
5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhæa and Dysentery.	Rheumatic Fever.	Phthisis.	Bronchitis, Pneumonia, and Pleurisy.	Heart Disease.	Influenza.	Injuries.	All Other Diseases.	Total.
								$\frac{2}{2}$				5		$\frac{-}{1}$		24	34
	**				• • • • •						6	12	5	1	2	30	56
<u>.</u>									·	marketer mann					morniam "magazapayana	es dilajangangan dilajahan	1
					• • • • •						• • • • •				• • • • •	• • • • •	
								•	-territori strattistissississi				West Ville ville village				
							,		• • • • •	••••	• • • • •		• • • • •	• • • • •	•••	• • • • •	
					•// •••	• • • • •							• • • • •				
									of Mill State Consequence and Art State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence (State Consequence								
										• • • • •						•••	
														• • • • •			
••••					• • • • •			• • • • •					• • • • •				
• • • • •	••••				••••		• • • • •			• • • • •			• • • • •	• • • • •			
	1							2	1			5		1		24	34
											6	12	5	1	2	30	56
int i	n jud	lging	of t	he ab	ove	recor	ds o	f mo	rtalit	y.		1					
•••••							• • • • •				• • • • •		• • • • • •	• • • • • •	• • • • •	3	3
•••••	•••••		• • • • •	• • • • •	• • • • •	•••		• • • • •	• • • • • •		• • • • •		• • • • • •	• • • • •	• • • • •	•••••	
													-				

# (B)—TABLE OF POPULATION, BIRTHS, AND OF NEW CAS Officer of Health, during the year 1899, in the PORTSLADE-BY-SI

Names of Localities adopted for the purpose of these Statistics; Public Institutions being above as generate.  POPULATION AT ALL AGES.  Aged under 5 or 1 2 3 4 5		State of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late of the late	The second second second second									
(a) (b) (c) (d) (e) (e) (d) (e) (e) (d) (e) (e) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	Names of Localities adopted			irths.	Amad	NEW CASES OF COMING TO THE KNOWL						
(a) (b) (c) (d) (e) (e) (d) (e) (e) (d) (e) (e) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	for the purpose of these		73.4.	l Bi	under 5	1	2	3	4	5		
Portslade-by-Sea Urban District 4,240 5,000 193 Under 5 8	being shown as separate	Last Census	mated tomid- dle of	Registered		all Pox.	rlatina.	htheria.	mbranous	FEV snud		
Portslade-by-Sea Urban District 4,240 5,000 193 5 upwards. 9 8  Under 5 5 upwards. Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.	$(\alpha)$	(b)	<b>(</b> c)	(11)	(e)	Sm	Sca	Dil	Me	Ty		
5 upwards   9   8     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards     Under 5   5 upwards	Portslade hy See Urban District	4.240	5 000	193	Under 5		8			:		
5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.	1 Ortstade-by-Sea Orban District			J. U+)	5 upwards.		9	8				
Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.					Under 5							
5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5					5 upwards.		1					
Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.					Under 5							
5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.			1		5 upwards.							
Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.					Under 5							
5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.					5 upwards.							
Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.			,		Under 5							
5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.					5 upwards.							
Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.	•				Under 5							
5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 8												
Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 8					• • • • • • • • • • • • • • • • • • • •							
5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.												
Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.					Under 5							
5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 8												
Under 5 5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  Under 5 8					• • • • • • • • • • • • • • • • • • •							
5 upwards.  Under 5 5 upwards.  Under 5 5 upwards.  4,240 5,000 193 Under 5 8		-					Tables of					
Under 5 5 upwards.  Totals 4,240 5,000 193 Under 5 8					• • • • • • • • • • • • • • • • • • • •							
Totals 4,240 5,000 193 Under 5 8		-										
Totals 4,240 5,000 193 Under 5 8												
TOTALS   4,240   5,000   193												
5 upwards. 9 8	Totals	4,240	5,000	193			8					
					5 upwards.		9	8				

F INFECTIOUS SICKNESS, coming to the knowledge of the Medicarban District; classified according to Diseases, Ages, and Localities.

								-											
ESS F T EA	IN THE LTH.	EACH MED	Loc ICAL	ALITY OFF	Y, ICER			N Hom	UMB: IES I	ER OF	r or	CH CA VERAI SOLA!	7 I.O	14 L.TT	THE T	$\alpha_D = \alpha$	THI REAT	EIR MENT	r
7	8	9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12	13
F.	EVER											F	EVE						
บลอบ	sing.	eral.	[කි.	pelas			Pox.	ina.	eria,	anor	70	1 =	,		al.	ral.			
131100	Relapsing.	Puerperal.	Cholera.	Erysipelas.			Small Pox.	Scarlatina.	Diphtheria.	Membranous Croup.	Typhus.	Enteric of Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera,	Erysipelas.		
	r===						<u>~~</u>	<u> </u>	0	CE —	T	五 五 式	<u> </u>	Re		Ch	<u> </u>		
• • •	• • • • • •	1	• • • • • •		••••		• • • • • •	······	• • • • •	• • • • •	• • • • • •	$\frac{1}{2}$		• • • • • •	•••••	• • • • • •	• • • • •	• • • • •	
	••••		••••	• • • • •	• • • • • • •		•••••	• • • • •		• • • • •	••••	•••••		• • • • • •	• • • • • •	• • • • •	• • • • •		• • • • •
					-									-	-		-		
									• • • • •		••••	•••••		•••••	• • • • ,   •	• • • • •	••••	• • • • • • • • • • • • • • • • • • • •	
	• • • • • • •		• • • • •																
_														*****	• • • • • •	• • • •   •			• • •
.		•••••	• • • • • • • • • • • • • • • • • • • •		••••		• • • • • • • • • • • • • • • • • • • •												
_																			
	• • • • • • •		· · · · · .	••••			• • • • • • • • • • • • • • • • • • • •	••••											
-																			
	• • • • • • • • • • • • • • • • • • • •	••••	••••		••••			• • • • • • •	• • • • •	• • •   • •		• • • • •		• • • • •					
						-											-		
		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •				• • •   • •		• • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		e••,•••		•••	•••	
														_					_
		• • • • •			• • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • •		• • • •   • • •	• • • •	• • • •   • • •	• • • • • • •		•••	•••	• • • • • • • •		
. , ,															4.		-		-
							• • •   • • •	• • •			• • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •	• • •   . • • •			••  •••		
• • • •																		_	
					N.													• • • • •	
,		• • • • • • • • • • • • • • • • • • • •											,						
		1	<u> </u>				1	.				2							
					,														-

